

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

Form C-101  
August 1, 2011  
Permit 273557

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

|                                                                                                                          |  |                               |
|--------------------------------------------------------------------------------------------------------------------------|--|-------------------------------|
| 1. Operator Name and Address<br>DEVON ENERGY PRODUCTION COMPANY, LP<br>333 West Sheridan Ave.<br>Oklahoma City, OK 73102 |  | 2. OGRID Number<br>6137       |
| 4. Property Code<br>323153                                                                                               |  | 3. API Number<br>30-015-46405 |
| 5. Property Name<br>LONE TREE DRAW 14 13 STATE COM                                                                       |  | 6. Well No.<br>333H           |

**7. Surface Location**

|          |         |          |       |         |           |          |           |          |        |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
| L        | 14      | 21S      | 27E   |         | 2100      | S        | 280       | W        | Eddy   |

**8. Proposed Bottom Hole Location**

|          |         |          |       |         |           |          |           |          |        |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
| H        | 13      | 21S      | 27E   | H       | 2200      | N        | 20        | E        | Eddy   |

**9. Pool Information**

|                            |       |
|----------------------------|-------|
| CARLSBAD;BONE SPRING, EAST | 96144 |
|----------------------------|-------|

**Additional Well Information**

|                           |                             |                                        |                         |                                    |
|---------------------------|-----------------------------|----------------------------------------|-------------------------|------------------------------------|
| 11. Work Type<br>New Well | 12. Well Type<br>OIL        | 13. Cable/Rotary                       | 14. Lease Type<br>State | 15. Ground Level Elevation<br>3245 |
| 16. Multiple<br>N         | 17. Proposed Depth<br>19308 | 18. Formation<br>Bone Spring           | 19. Contractor          | 20. Spud Date<br>1/25/2021         |
| Depth to Ground water     |                             | Distance from nearest fresh water well |                         | Distance to nearest surface water  |

☒ We will be using a closed-loop system in lieu of lined pits

**21. Proposed Casing and Cement Program**

| Type | Hole Size | Casing Size | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC |
|------|-----------|-------------|------------------|---------------|-----------------|---------------|
| Surf | 17.5      | 13.375      | 48               | 325           | 274             | 0             |
| Int1 | 12.25     | 9.625       | 40               | 2919          | 452             | 0             |
| Prod | 8.75      | 5.5         | 17               | 19308         | 2618            | 0             |

**Casing/Cement Program: Additional Comments**

|  |
|--|
|  |
|--|

**22. Proposed Blowout Prevention Program**

| Type       | Working Pressure | Test Pressure | Manufacturer |
|------------|------------------|---------------|--------------|
| Annular    | 5000             | 5000          |              |
| Blind      | 5000             | 5000          |              |
| Double Ram | 5000             | 5000          |              |
| Annular    | 5000             | 5000          |              |
| Blind      | 5000             | 5000          |              |
| Double Ram | 5000             | 5000          |              |

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.  
 I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.

Signature:

**OIL CONSERVATION DIVISION**

Printed Name: Electronically filed by Jeff Walla

Title: Supervisor Land

Email Address: Jeff.Walla@dmv.com

Date: 10/18/2019

Phone: 575-748-9925

Approved By: Raymond Podany

Title: Geologist

Approved Date: 10/21/2019

Expiration Date: 10/21/2021

Conditions of Approval Attached

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office  
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                       |                                                                            |                                                              |
|---------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------|
| <sup>1</sup> API Number               | <sup>2</sup> Pool Code<br><b>96144</b>                                     | <sup>3</sup> Pool Name<br><b>CARLSBAD; BONE SPRING, EAST</b> |
| <sup>4</sup> Property Code            | <sup>5</sup> Property Name<br><b>LONE TREE DRAW 14-13 STATE COM</b>        | <sup>6</sup> Well Number<br><b>333H</b>                      |
| <sup>7</sup> OGRID No.<br><b>6137</b> | <sup>8</sup> Operator Name<br><b>DEVON ENERGY PRODUCTION COMPANY, L.P.</b> | <sup>9</sup> Elevation<br><b>3244.8</b>                      |

<sup>10</sup> Surface Location

|                           |                      |                         |                      |         |                              |                                  |                             |                               |                       |
|---------------------------|----------------------|-------------------------|----------------------|---------|------------------------------|----------------------------------|-----------------------------|-------------------------------|-----------------------|
| UL or lot no.<br><b>L</b> | Section<br><b>14</b> | Township<br><b>21 S</b> | Range<br><b>27 E</b> | Lot Idn | Feet from the<br><b>2100</b> | North/South line<br><b>SOUTH</b> | Feet from the<br><b>280</b> | East/West line<br><b>WEST</b> | County<br><b>EDDY</b> |
|---------------------------|----------------------|-------------------------|----------------------|---------|------------------------------|----------------------------------|-----------------------------|-------------------------------|-----------------------|

<sup>11</sup> Bottom Hole Location If Different From Surface

|                           |                      |                         |                      |         |                              |                                  |                            |                               |                       |
|---------------------------|----------------------|-------------------------|----------------------|---------|------------------------------|----------------------------------|----------------------------|-------------------------------|-----------------------|
| UL or lot no.<br><b>H</b> | Section<br><b>13</b> | Township<br><b>21 S</b> | Range<br><b>27 E</b> | Lot Idn | Feet from the<br><b>2200</b> | North/South line<br><b>NORTH</b> | Feet from the<br><b>20</b> | East/West line<br><b>EAST</b> | County<br><b>EDDY</b> |
|---------------------------|----------------------|-------------------------|----------------------|---------|------------------------------|----------------------------------|----------------------------|-------------------------------|-----------------------|

|                                             |                               |                                  |                         |
|---------------------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br><b>320</b> | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No. |
|---------------------------------------------|-------------------------------|----------------------------------|-------------------------|

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| <p><b><sup>17</sup> OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><u>Erin Workman</u> <b>10/15/19</b><br/>Signature Date</p> <p><b>Erin Workman</b><br/>Printed Name</p> <p><b>Erin.workman@dmv.com</b><br/>E-mail Address</p> |  |  |  |
| <p><b><sup>18</sup> SURVEYOR CERTIFICATION</b></p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>MAY 6, 2019<br/>Date of Survey</p> <p><u>FILIMON F. JARAMILLO</u><br/>Signature and Seal of Professional Surveyor</p> <p>Certificate Number: <b>FILIMON F. JARAMILLO, PLS 12797</b><br/>SURVEY NO. 7254</p>                                                                                                                                                                                                                                            |  |  |  |

Intent ☒ As Drilled ☐

API #

|                                                            |                                                     |                     |
|------------------------------------------------------------|-----------------------------------------------------|---------------------|
| Operator Name:<br>DEVON ENERGY PRODUCTION<br>COMPANY, L.P. | Property Name:<br>LONE TREE DRAW 14-13 STATE<br>COM | Well Number<br>333H |
|------------------------------------------------------------|-----------------------------------------------------|---------------------|

Kick Off Point (KOP)

|                       |               |                 |              |     |                           |                   |            |                  |                |
|-----------------------|---------------|-----------------|--------------|-----|---------------------------|-------------------|------------|------------------|----------------|
| UL                    | Section<br>14 | Township<br>21S | Range<br>27E | Lot | Feet<br>2200              | From N/S<br>NORTH | Feet<br>50 | From E/W<br>WEST | County<br>EDDY |
| Latitude<br>32.481450 |               |                 |              |     | Longitude<br>-104.1687685 |                   |            | NAD<br>83        |                |

First Take Point (FTP)

|                        |               |                 |              |     |                          |                   |             |                  |                |
|------------------------|---------------|-----------------|--------------|-----|--------------------------|-------------------|-------------|------------------|----------------|
| UL<br>E                | Section<br>14 | Township<br>21S | Range<br>27E | Lot | Feet<br>2200             | From N/S<br>NORTH | Feet<br>100 | From E/W<br>WEST | County<br>EDDY |
| Latitude<br>32.4814463 |               |                 |              |     | Longitude<br>104.1687685 |                   |             | NAD<br>83        |                |

Last Take Point (LTP)

|                        |               |                 |              |     |                          |                   |             |                  |                |
|------------------------|---------------|-----------------|--------------|-----|--------------------------|-------------------|-------------|------------------|----------------|
| UL<br>H                | Section<br>13 | Township<br>21S | Range<br>27E | Lot | Feet<br>2200             | From N/S<br>NORTH | Feet<br>100 | From E/W<br>EAST | County<br>EDDY |
| Latitude<br>32.4815733 |               |                 |              |     | Longitude<br>104.1347521 |                   |             | NAD<br>83        |                |

Is this well the defining well for the Horizontal Spacing Unit? ☒

Is this well an infill well? ☐

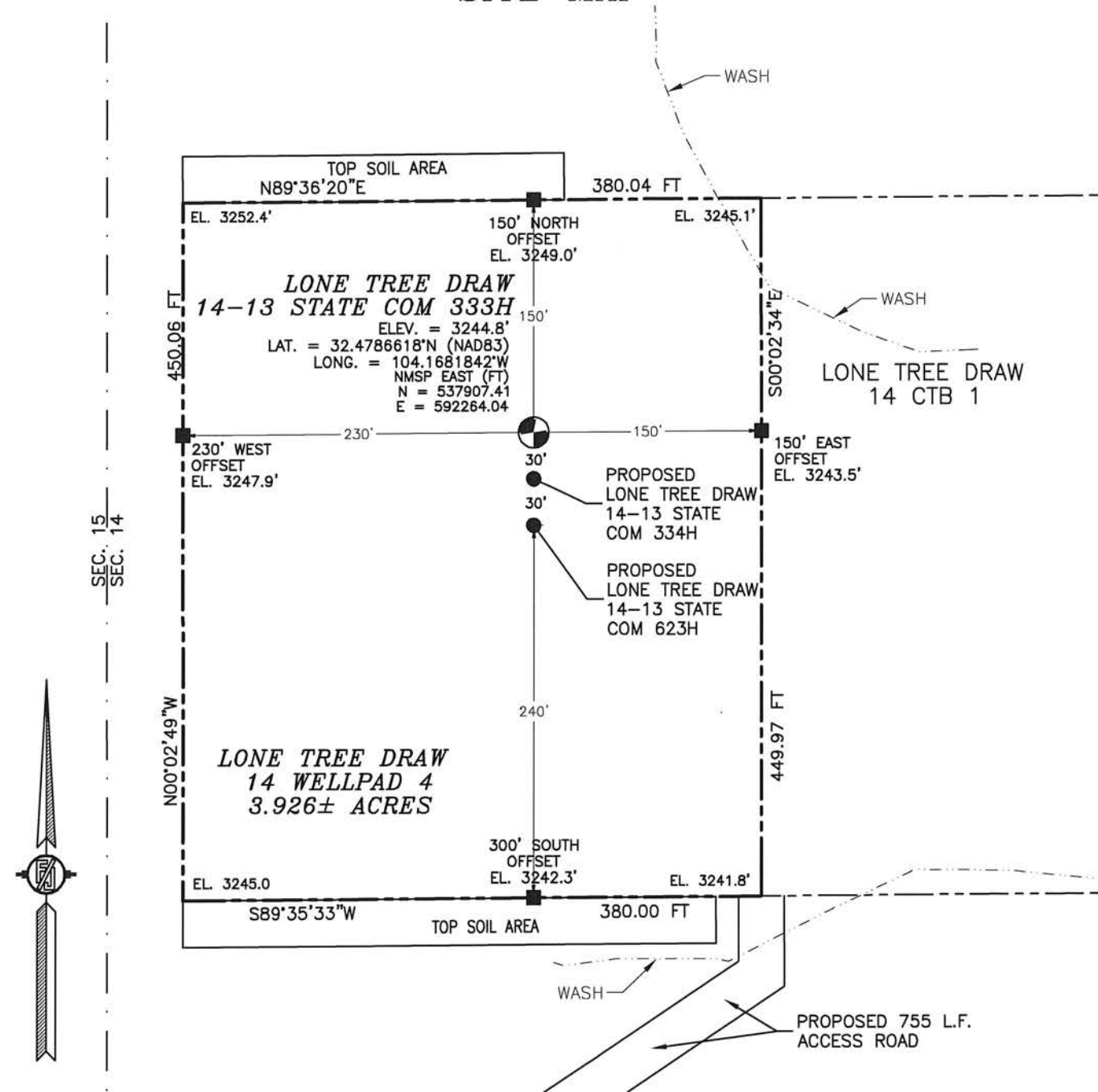
If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

|                |                |             |
|----------------|----------------|-------------|
| Operator Name: | Property Name: | Well Number |
|----------------|----------------|-------------|

KZ 06/29/2018

SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
SITE MAP



**DIRECTIONS TO LOCATION**

FROM CR. 206 (ILLINOIS CAMP) AND CR. 600 (RAINS)  
GO EAST ON CR. 600 2.2 MILES, BEND LEFT AND GO  
NORTHEAST 0.1 MILES, TURN RIGHT AND GO SOUTHEAST  
0.52 MILES, BEND LEFT AND GO EAST 0.9 MILES, TURN  
RIGHT AND GO SOUTH 0.5 MILES, TURN RIGHT AND GO  
SOUTHWEST 0.8 MILES, TURN LEFT AND GO SOUTHEAST  
0.21 MILES TO ROAD SURVEY AND FOLLOW FLAGS  
NORTHEAST 705' THEN NORTH 50' TO THE SOUTHEAST  
PAD CORNER FOR THIS LOCATION.

DEVON ENERGY PRODUCTION COMPANY, L.P.  
**LONE TREE DRAW 14-13 STATE COM 333H**  
LOCATED 2100 FT. FROM THE SOUTH LINE  
AND 280 FT. FROM THE WEST LINE OF  
SECTION 14, TOWNSHIP 21 SOUTH,  
RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

MAY 6, 2019

SURVEY NO. 7254

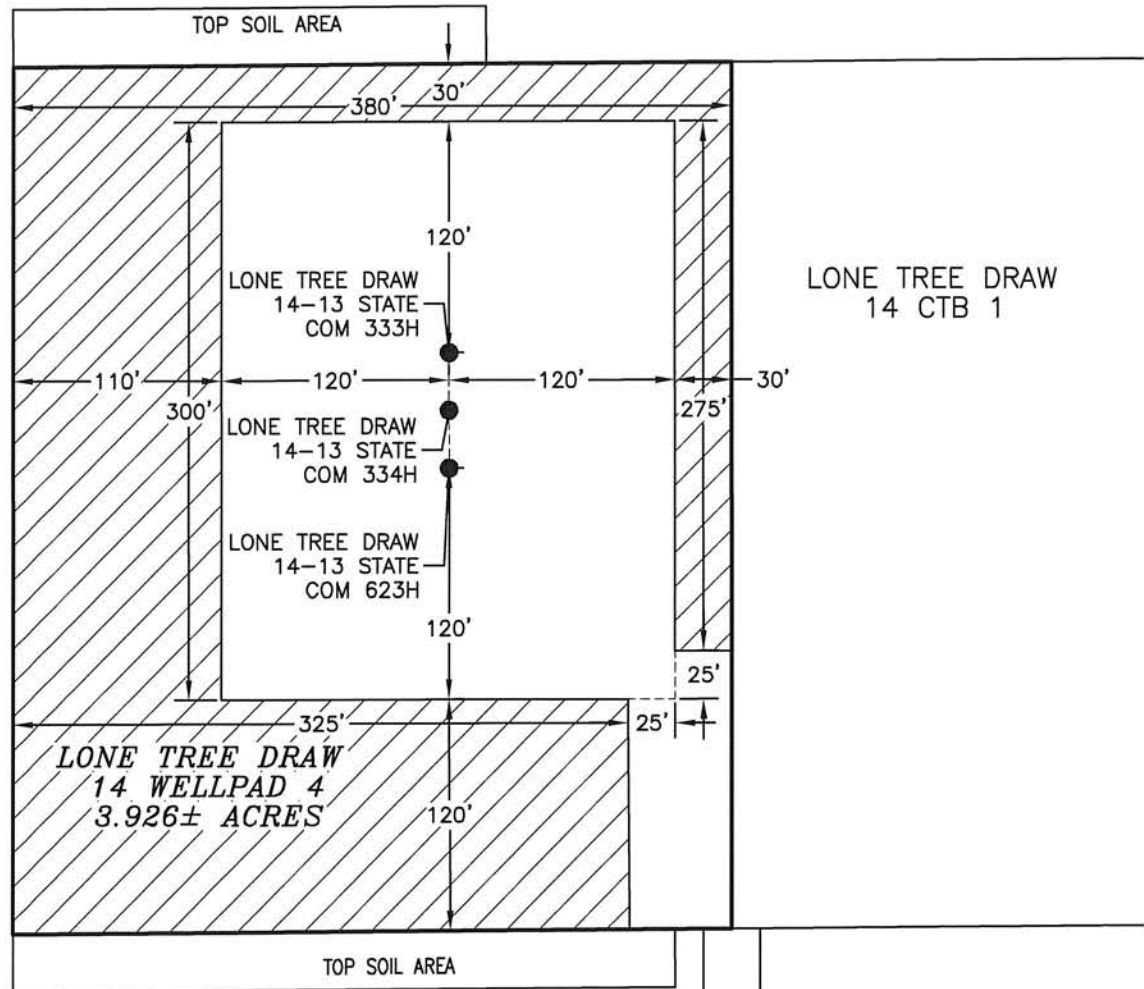
MADRON SURVEYING, INC.

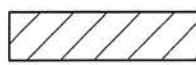
301 SOUTH CANAL  
(575) 234-3341

CARLSBAD, NEW MEXICO



SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
INTERIM SITE RECLAMATION



 DENOTES  
RECLAMATION AREA  
2.107± ACRES RECLAMATION AREA



0 10 50 100 200  
SCALE 1" = 100'

DEVON ENERGY PRODUCTION COMPANY, L.P.  
**LONE TREE DRAW 14-13 STATE COM 333H**  
LOCATED 2100 FT. FROM THE SOUTH LINE  
AND 280 FT. FROM THE WEST LINE OF  
SECTION 14, TOWNSHIP 21 SOUTH,  
RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

MAY 6, 2019

SURVEY NO. 7254

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO



SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
LOCATION VERIFICATION MAP



DEVON ENERGY PRODUCTION COMPANY, L.P.  
**LONE TREE DRAW 14-13 STATE COM 333H**  
LOCATED 2100 FT. FROM THE SOUTH LINE  
AND 280 FT. FROM THE WEST LINE OF  
SECTION 14, TOWNSHIP 21 SOUTH,  
RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

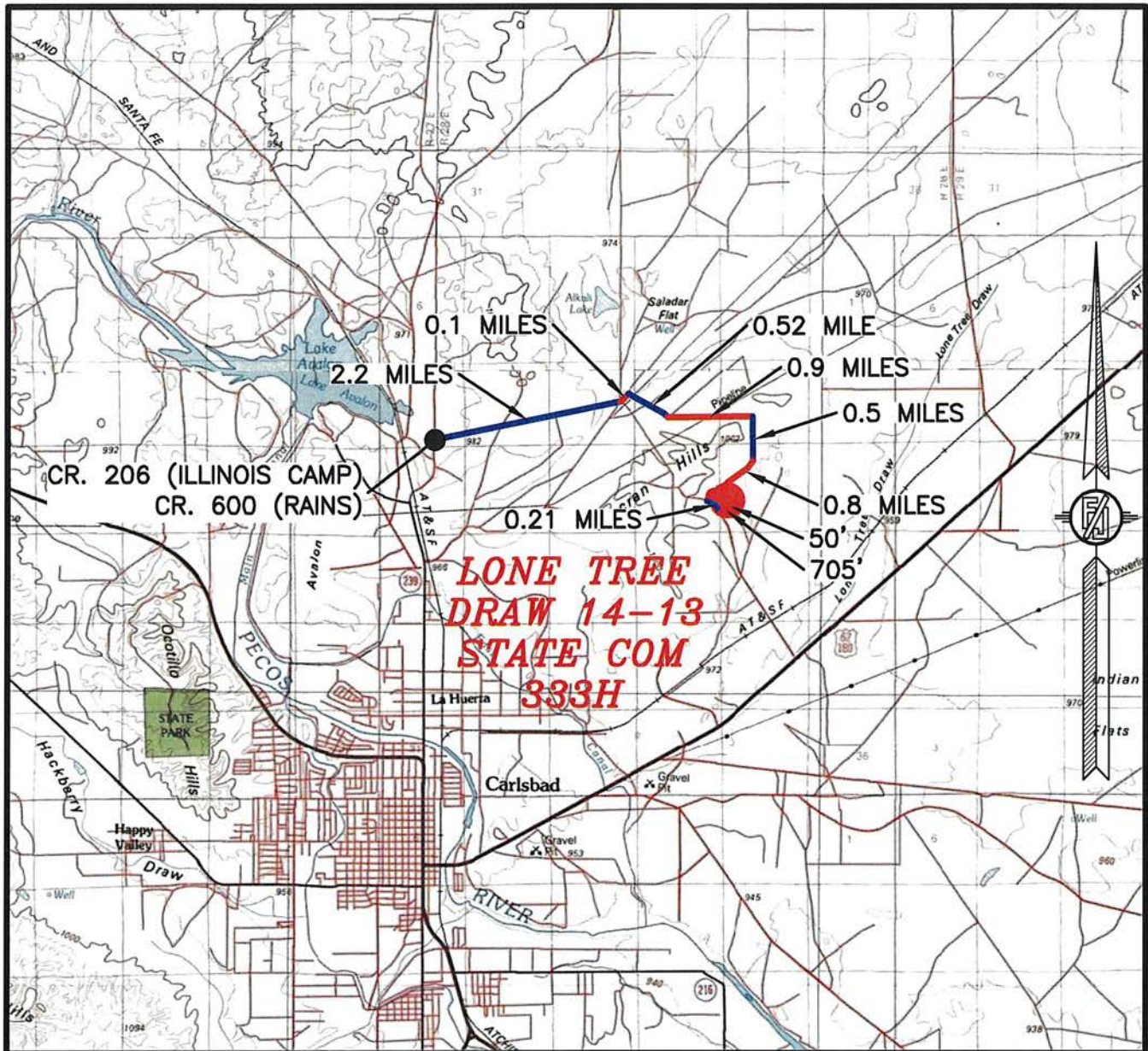
MAY 6, 2019

SURVEY NO. 7254

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO



SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

**DIRECTIONS TO LOCATION**

FROM CR. 206 (ILLINOIS CAMP) AND CR. 600 (RAINS)  
GO EAST ON CR. 600 2.2 MILES, BEND LEFT AND GO  
NORTHEAST 0.1 MILES, TURN RIGHT AND GO SOUTHEAST  
0.52 MILES, BEND LEFT AND GO EAST 0.9 MILES, TURN  
RIGHT AND GO SOUTH 0.5 MILES, TURN RIGHT AND GO  
SOUTHWEST 0.8 MILES, TURN LEFT AND GO SOUTHEAST  
0.21 MILES TO ROAD SURVEY AND FOLLOW FLAGS  
NORTHEAST 705' THEN NORTH 50' TO THE SOUTHEAST  
PAD CORNER FOR THIS LOCATION.

**DEVON ENERGY PRODUCTION COMPANY, L.P.  
LONE TREE DRAW 14-13 STATE COM 333H**

LOCATED 2100 FT. FROM THE SOUTH LINE  
AND 280 FT. FROM THE WEST LINE OF  
SECTION 14, TOWNSHIP 21 SOUTH,  
RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

MAY 6, 2019

MADRON SURVEYING, INC.

301 SOUTH CANAL  
(575) 234-3341

CARLSBAD, NEW MEXICO

SURVEY NO. 7254



SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
AERIAL PHOTO



NOT TO SCALE  
AERIAL PHOTO:  
GOOGLE EARTH  
MAR. 2019

DEVON ENERGY PRODUCTION COMPANY, L.P.  
**LONE TREE DRAW 14-13 STATE COM 333H**  
LOCATED 2100 FT. FROM THE SOUTH LINE  
AND 280 FT. FROM THE WEST LINE OF  
SECTION 14, TOWNSHIP 21 SOUTH,  
RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

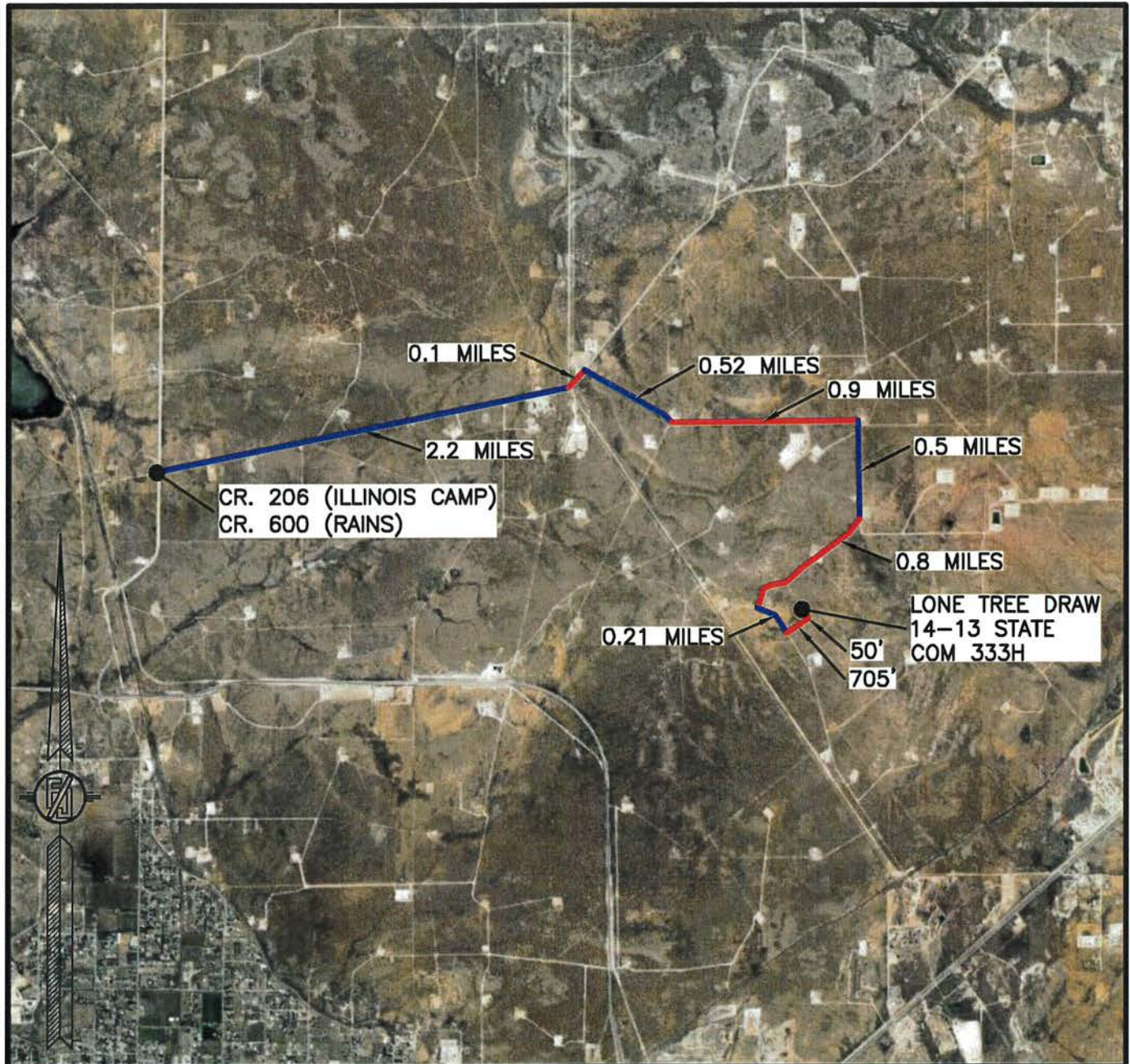
MAY 6, 2019

SURVEY NO. 7254

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO



SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
AERIAL ACCESS ROUTE MAP



NOT TO SCALE  
AERIAL PHOTO:  
GOOGLE EARTH  
MAR. 2019

**DEVON ENERGY PRODUCTION COMPANY, L.P.**  
**LONE TREE DRAW 14-13 STATE COM 333H**

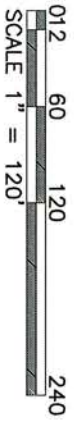
LOCATED 2100 FT. FROM THE SOUTH LINE  
AND 280 FT. FROM THE WEST LINE OF  
SECTION 14, TOWNSHIP 21 SOUTH,  
RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

MAY 6, 2019

SURVEY NO. 7254

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO





| CUT          | FILL         | NET                |
|--------------|--------------|--------------------|
| 21151 CU. YD | 27897 CU. YD | 6746 CU. YD (FILL) |

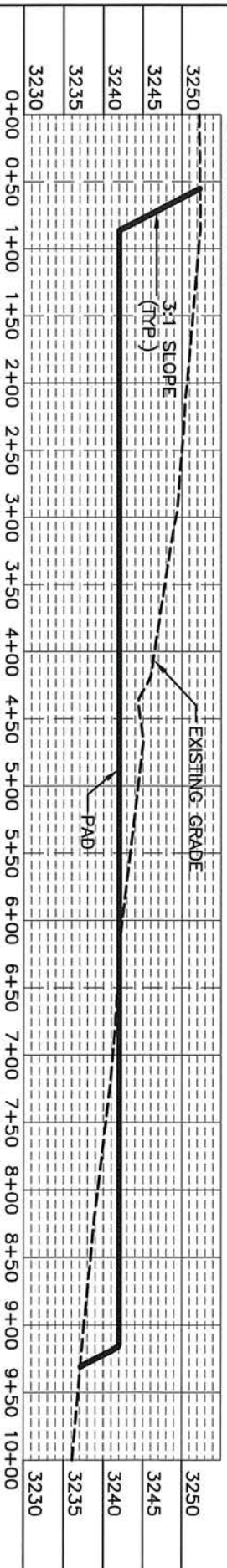
EARTHWORK QUANTITIES ARE ESTIMATED

SHEET 1-  
SURVEY NO. 7254

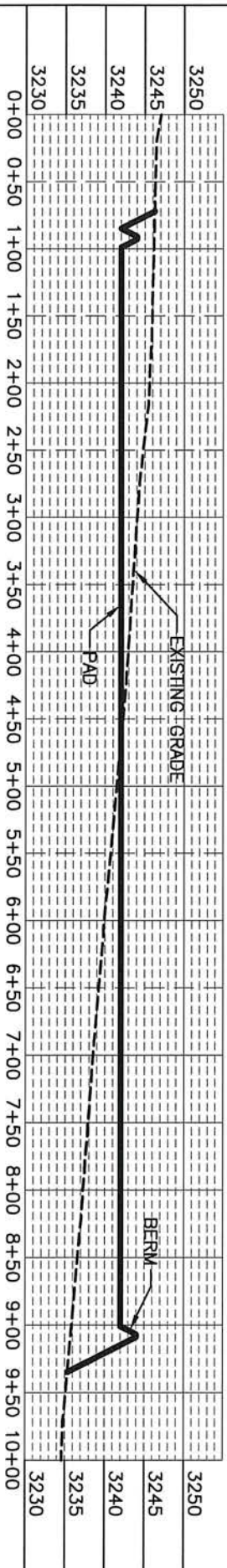


# CROSS-SECTIONS

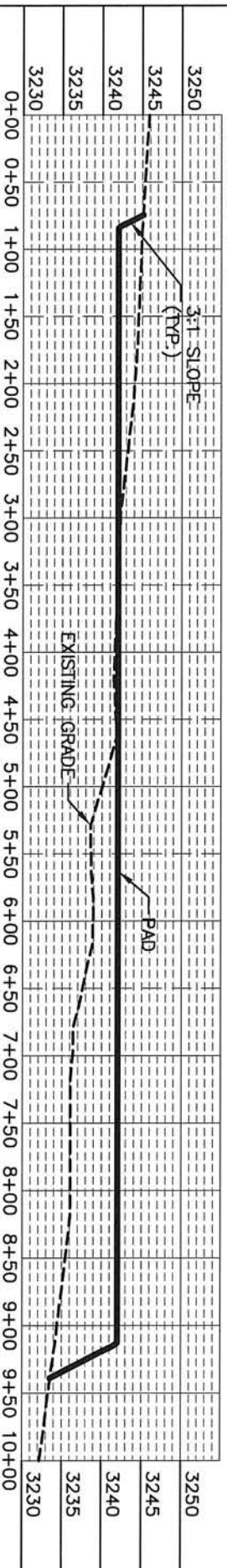
SECTION A-A'



SECTION B-B'



SECTION C-C'



012 60 120 240  
SCALE 1" = 120' - 1" = 20' VER

DEVON ENERGY PRODUCTION COMPANY, L.P.  
PAD GRADING AND CROSS SECTIONS  
FOR LONE TREE DRAW 14-13 STATE COM 333H  
SECTION 14, TOWNSHIP 21 SOUTH,  
RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

| CUT         | FILL         | NET                |
|-------------|--------------|--------------------|
| 2151 CU. YD | 27897 CU. YD | 6746 CU. YD (FILL) |

EARTHWORK QUANTITIES ARE ESTIMATED

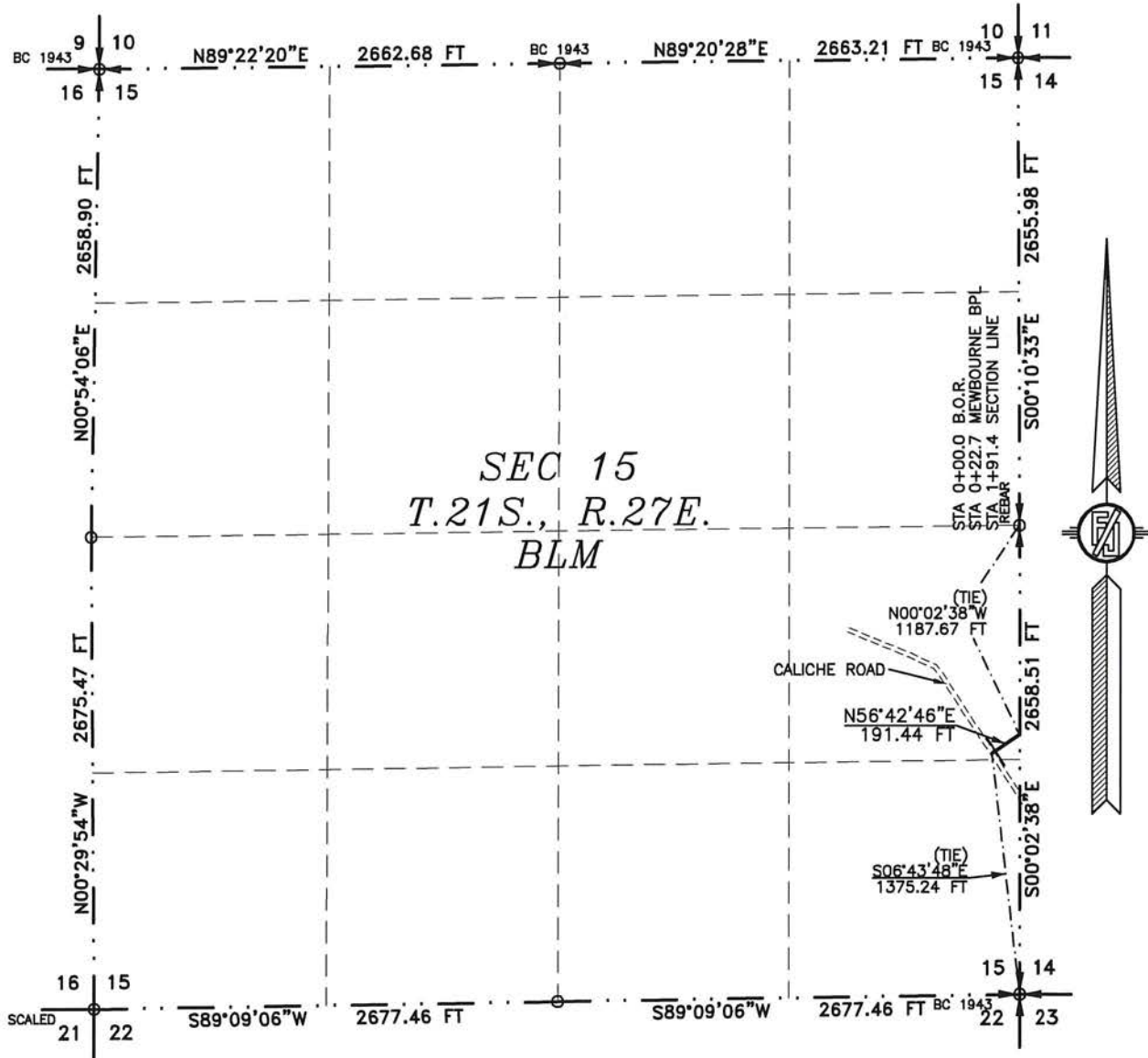
MAY 6, 2019  
MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

SHEET 2-2  
SURVEY NO. 7254

# ACCESS ROAD PLAT

ACCESS ROAD FOR LONE TREE DRAW 14 CTB 1 & WELLPAD 4  
(LONE TREE DRAW 14-13 STATE COM 333H, 334H, & 623H)

DEVON ENERGY PRODUCTION COMPANY, L.P.  
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING  
SECTION 15, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
MAY 6, 2019



SEE NEXT SHEET (2-4) FOR DESCRIPTION

## SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THIS 21 DAY OF MAY 2019

MADRON SURVEYING, INC.  
301 SOUTH CANAL  
CARLSBAD, NEW MEXICO 88220  
Phone (575) 234-3341

## GENERAL NOTES

1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 1-4

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

SURVEY NO. 7254



## ACCESS ROAD PLAT

ACCESS ROAD FOR LONE TREE DRAW 14 CTB 1 & WELLPAD 4  
(LONE TREE DRAW 14-13 STATE COM 333H, 334H, & 623H)

DEVON ENERGY PRODUCTION COMPANY, L.P.  
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING  
SECTION 15, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
MAY 6, 2019

### DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 15, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NE/4 SE/4 OF SAID SECTION 15, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M., WHENCE THE SOUTHEAST CORNER OF SAID SECTION 15, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS S06°43'48"E, A DISTANCE OF 1375.24 FEET;  
THENCE N56°42'46"E A DISTANCE OF 191.44 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE EAST QUARTER CORNER OF SAID SECTION 15, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS N00°02'38"W, A DISTANCE OF 1187.67 FEET;

SAID STRIP OF LAND BEING 191.44 FEET OR 11.60 RODS IN LENGTH, CONTAINING 0.132 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NE/4 SE/4    191.44 L.F.    11.60 RODS    0.132 ACRES

### GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 2-4

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

### SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,  
NEW MEXICO, THIS 21 DAY OF MAY 2019

  
FILIMON F. JARAMILLO PLS. 12797

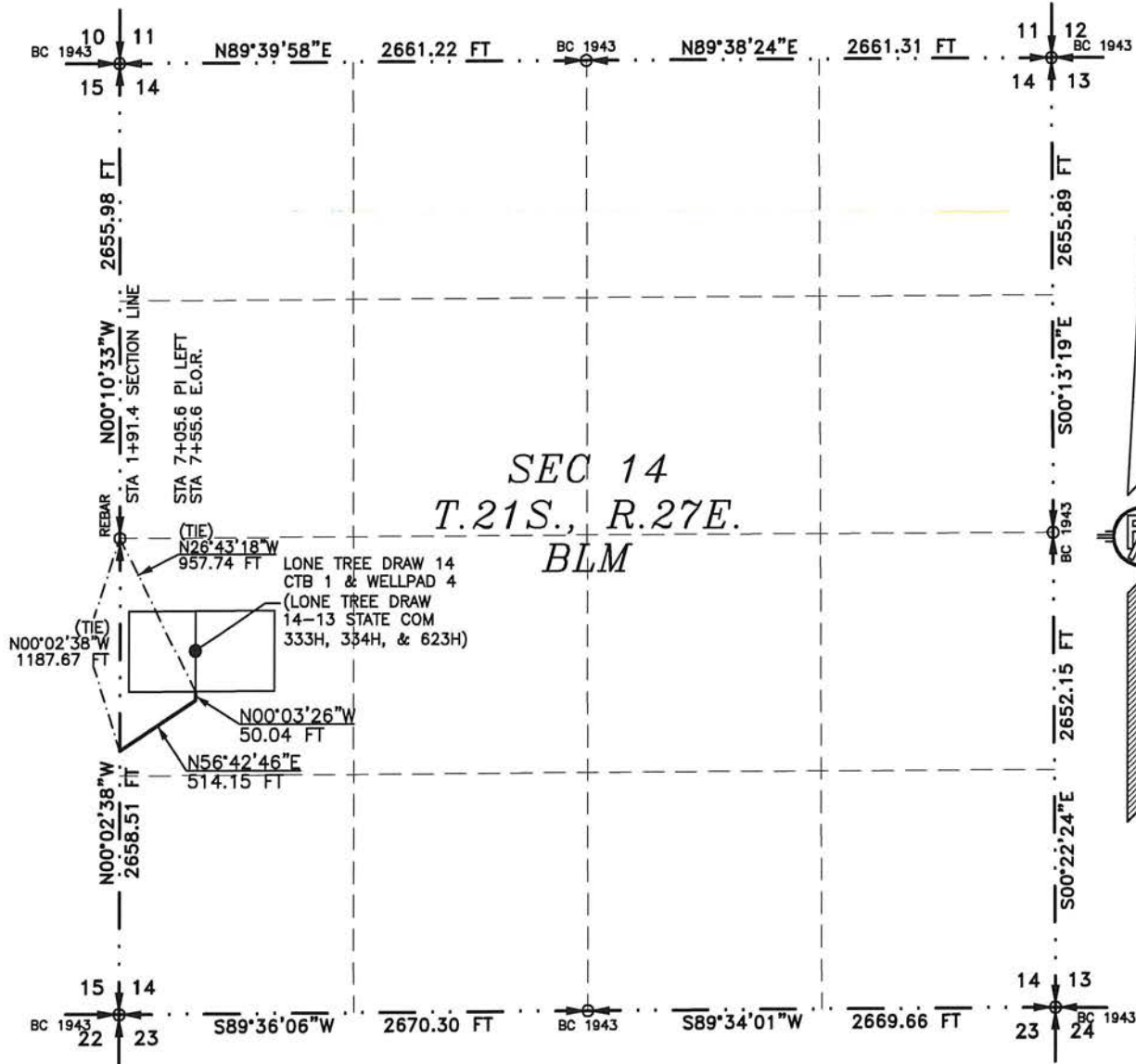
MADRON SURVEYING, INC.  
301 SOUTH CANAL  
CARLSBAD, NEW MEXICO 88220  
Phone (575) 234-3341

SURVEY NO. 7254

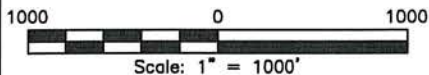
# ACCESS ROAD PLAT

ACCESS ROAD FOR LONE TREE DRAW 14 CTB 1 & WELLPAD 4  
(LONE TREE DRAW 14-13 STATE COM 333H, 334H, & 623H)

DEVON ENERGY PRODUCTION COMPANY, L.P.  
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING  
SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
MAY 6, 2019



SEE NEXT SHEET (4-4) FOR DESCRIPTION



## GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 3-4

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

## SURVEYOR CERTIFICATE

I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 24 DAY OF MAY 2019

*[Signature]*  
FILMON F. JARAMILLO PLS. 12797

MADRON SURVEYING, INC.  
301 SOUTH CANAL  
CARLSBAD, NEW MEXICO 88220  
Phone (575) 234-3341

SURVEY NO. 7254



## ACCESS ROAD PLAT

ACCESS ROAD FOR LONE TREE DRAW 14 CTB 1 & WELLPAD 4  
(LONE TREE DRAW 14-13 STATE COM 333H, 334H, & 623H)

DEVON ENERGY PRODUCTION COMPANY, L.P.  
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING  
SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

MAY 6, 2019

### DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NW/4 SW/4 OF SAID SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M., WHENCE THE WEST QUARTER CORNER OF SAID SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS N00°02'38"W, A DISTANCE OF 1187.67 FEET;  
THENCE N56°42'46"E A DISTANCE OF 514.15 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;  
THENCE N00°03'26"W A DISTANCE OF 50.04 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE WEST QUARTER CORNER OF SAID SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS N26°43'18"W, A DISTANCE OF 957.74 FEET;

SAID STRIP OF LAND BEING 564.19 FEET OR 34.19 RODS IN LENGTH, CONTAINING 0.389 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 SW/4    564.19 L.F.    34.19 RODS    0.389 ACRES

### SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THIS 27 DAY OF MAY 2019

FILIMON F. JARAMILLO, PLS. 12797

MADRON SURVEYING, INC.  
301 SOUTH CANAL  
CARLSBAD, NEW MEXICO 88220  
Phone (575) 234-3341

SURVEY NO. 7254

### GENERAL NOTES

1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 4-4

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

**GAS CAPTURE PLAN**

Date: 10/21/2019

☒ Original

Operator & OGRID No.: [6137] DEVON ENERGY PRODUCTION COMPANY, LP

☐ Amended - Reason for  
Amendment: \_\_\_\_\_

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

*Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).*

**Well(s)/Production Facility – Name of facility**

The well(s) that will be located at the production facility are shown in the table below.

| Well Name                            | API          | Well Location<br>(ULSTR) | Footages    | Expected<br>MCF/D | Flared or<br>Vented | Comments |
|--------------------------------------|--------------|--------------------------|-------------|-------------------|---------------------|----------|
| LONE TREE DRAW 14 13 STATE COM #333H | 30-015-46405 | L-14-21S-27E             | 2100S 0280W | 10                | Flared              |          |

**Gathering System and Pipeline Notification**

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to DCP OPERATING COMPANY, LP and will be connected to DCP OPERATING COMPANY, LP High Pressure gathering system located in Eddy County, New Mexico. It will require 21120' of pipeline to connect the facility to High Pressure gathering system. DEVON ENERGY PRODUCTION COMPANY, LP provides (periodically) to DCP OPERATING COMPANY, LP a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, DEVON ENERGY PRODUCTION COMPANY, LP and DCP OPERATING COMPANY, LP have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at DCP OPERATING COMPANY, LP Processing Plant located in Sec. 19, Twn. 19S, Rng. 32E, Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

**Flowback Strategy**

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on DCP OPERATING COMPANY, LP system at that time. Based on current information, it is DEVON ENERGY PRODUCTION COMPANY, LP's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

**Alternatives to Reduce Flaring**

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
  - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines



**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

Form APD Comments  
  
Permit 273557

**PERMIT COMMENTS**

|                                                                                                                               |  |                                               |
|-------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------|
| Operator Name and Address:<br>DEVON ENERGY PRODUCTION COMPANY, LP [6137]<br>333 West Sheridan Ave.<br>Oklahoma City, OK 73102 |  | API Number:<br>30-015-46405                   |
|                                                                                                                               |  | Well:<br>LONE TREE DRAW 14 13 STATE COM #333H |

|            |         |              |
|------------|---------|--------------|
| Created By | Comment | Comment Date |
|------------|---------|--------------|

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

Form APD Conditions  
  
Permit 273557

**PERMIT CONDITIONS OF APPROVAL**

|                                                                                                                               |                                                                                     |                                               |
|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------|
| Operator Name and Address:<br>DEVON ENERGY PRODUCTION COMPANY, LP [6137]<br>333 West Sheridan Ave.<br>Oklahoma City, OK 73102 |                                                                                     | API Number:<br>30-015-46405                   |
|                                                                                                                               |                                                                                     | Well:<br>LONE TREE DRAW 14 13 STATE COM #333H |
| OCD Reviewer                                                                                                                  | Condition                                                                           |                                               |
| rpodany                                                                                                                       | Will require a directional survey with the C-104                                    |                                               |
| rpodany                                                                                                                       | Cement is required to circulate on both surface and intermediate1 strings of casing |                                               |



# **WCDSC Permian NM**

**Eddy County (NAD 83 NM Eastern)**

**Sec 14-T21S-R27E**

**Lone Tree Draw 14-13 State Com 333H**

**Wellbore #1**

**Permit Plan 1**

## **Anticollision Report**

**07 October, 2019**

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

|                                     |                                                                     |                       |                     |
|-------------------------------------|---------------------------------------------------------------------|-----------------------|---------------------|
| <b>Reference</b>                    | Permit Plan 1                                                       |                       |                     |
| <b>Filter type:</b>                 | NO GLOBAL FILTER: Using user defined selection & filtering criteria |                       |                     |
| <b>Interpolation Method:</b>        | Stations                                                            | <b>Error Model:</b>   | ISCWSA              |
| <b>Depth Range:</b>                 | Unlimited                                                           | <b>Scan Method:</b>   | Closest Approach 3D |
| <b>Results Limited by:</b>          | Maximum center-center distance of 10,000.00 ft                      | <b>Error Surface:</b> | Pedal Curve         |
| <b>Warning Levels Evaluated at:</b> | 2.00 Sigma                                                          | <b>Casing Method:</b> | Not applied         |

|                            |                |                             |                  |                    |
|----------------------------|----------------|-----------------------------|------------------|--------------------|
| <b>Survey Tool Program</b> | <b>Date</b>    | 10/4/2019                   |                  |                    |
| <b>From (ft)</b>           | <b>To (ft)</b> | <b>Survey (Wellbore)</b>    | <b>Tool Name</b> | <b>Description</b> |
| 0.00                       | 19,308.27      | Permit Plan 1 (Wellbore #1) | MWD+IFR1         | OWSG MWD + IFR1    |

|                                                        |                                      |                                   |                                      |                                       |                          |                |
|--------------------------------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|---------------------------------------|--------------------------|----------------|
| <b>Summary</b>                                         |                                      |                                   |                                      |                                       |                          |                |
| <b>Site Name</b>                                       | <b>Reference Measured Depth (ft)</b> | <b>Offset Measured Depth (ft)</b> | <b>Distance Between Centres (ft)</b> | <b>Distance Between Ellipses (ft)</b> | <b>Separation Factor</b> | <b>Warning</b> |
| <b>Offset Well - Wellbore - Design</b>                 |                                      |                                   |                                      |                                       |                          |                |
| Sec 13-T21S-R27E                                       |                                      |                                   |                                      |                                       |                          |                |
| Lone Tree Draw 13 State 11H - Wellbore #1 - Wellbore # | 15,975.33                            | 8,463.95                          | 1,977.03                             | 1,899.27                              | 25.423                   | CC             |
| Lone Tree Draw 13 State 11H - Wellbore #1 - Wellbore # | 16,000.00                            | 8,465.04                          | 1,977.18                             | 1,899.19                              | 25.351                   | ES             |
| Lone Tree Draw 13 State 11H - Wellbore #1 - Wellbore # | 19,100.00                            | 19,100.00                         | 3,694.56                             | 3,488.19                              | 17.902                   | SF             |
| Lone Tree Draw 13 State 15H - Original Hole - Actuals  | 14,914.32                            | 14,914.32                         | 1,364.10                             | 1,257.65                              | 12.815                   | CC, ES         |
| Lone Tree Draw 13 State 15H - Original Hole - Actuals  | 15,000.00                            | 15,000.00                         | 1,366.79                             | 1,258.60                              | 12.634                   | SF             |
| Lone Tree Draw 13 State Com 4H - Pilot - Pilot         | 14,751.24                            | 7,876.00                          | 2,227.48                             | 2,082.89                              | 15.405                   | CC             |
| Lone Tree Draw 13 State Com 4H - Pilot - Pilot         | 14,800.00                            | 7,876.00                          | 2,228.01                             | 2,082.53                              | 15.315                   | ES             |
| Lone Tree Draw 13 State Com 4H - Pilot - Pilot         | 15,100.00                            | 7,876.00                          | 2,254.62                             | 2,104.80                              | 15.049                   | SF             |
| Lone Tree Draw 13 State Com 4H - Wellbore #2 - Wellbo  | 12,600.00                            | 12,600.00                         | 4,496.64                             | 4,383.15                              | 39.621                   | SF             |
| Lone Tree Draw 13 State Com 4H - Wellbore #2 - Wellbo  | 15,040.39                            | 6,780.00                          | 3,778.28                             | 3,708.78                              | 54.369                   | CC             |
| Lone Tree Draw 13 State Com 4H - Wellbore #2 - Wellbo  | 15,100.00                            | 6,780.00                          | 3,778.75                             | 3,708.77                              | 54.000                   | ES             |
| Lone Tree Draw 13 State Com 5H - Wellbore #1 - Wellbo  | 16,740.01                            | 7,077.00                          | 3,767.73                             | 3,683.80                              | 44.890                   | CC             |
| Lone Tree Draw 13 State Com 5H - Wellbore #1 - Wellbo  | 16,800.00                            | 7,079.22                          | 3,768.21                             | 3,683.76                              | 44.622                   | ES             |
| Lone Tree Draw 13 State Com 5H - Wellbore #1 - Wellbo  | 18,000.00                            | 7,119.38                          | 3,972.52                             | 3,878.08                              | 42.061                   | SF             |
| Lone Tree Draw 13 State Com 8H - Original Hole - Actua | 17,346.61                            | 9,626.12                          | 997.32                               | 910.17                                | 11.445                   | CC, ES         |
| Lone Tree Draw 13 State Com 8H - Original Hole - Actua | 17,600.00                            | 9,626.96                          | 1,029.00                             | 937.62                                | 11.260                   | SF             |
| Lone Tree Draw State 3H - Wellbore #1 - Wellbore #1    | 15,723.69                            | 6,887.46                          | 3,789.77                             | 3,714.43                              | 50.301                   | CC, ES         |
| Lone Tree Draw State 3H - Wellbore #1 - Wellbore #1    | 18,500.00                            | 18,500.00                         | 4,697.87                             | 4,492.52                              | 22.877                   | SF             |
| Lone Tree Draw State 7H - Wellbore #1 - Wellbore #1    | 16,373.02                            | 9,889.06                          | 1,031.64                             | 947.12                                | 12.206                   | CC, ES         |
| Lone Tree Draw State 7H - Wellbore #1 - Wellbore #1    | 16,500.00                            | 9,889.90                          | 1,039.43                             | 953.39                                | 12.081                   | SF             |
| Lone Tree Draw State Com 2H - ST01 - ST01              | 14,592.75                            | 6,719.00                          | 3,835.98                             | 3,770.09                              | 58.215                   | CC             |
| Lone Tree Draw State Com 2H - ST01 - ST01              | 14,600.00                            | 6,719.00                          | 3,835.99                             | 3,770.04                              | 58.164                   | ES             |
| Lone Tree Draw State Com 2H - ST01 - ST01              | 16,100.00                            | 6,661.90                          | 4,120.61                             | 4,042.51                              | 52.762                   | SF             |
| Lone Tree Draw State Com 2H - Wellbore #1 - Wellbore   | 14,760.69                            | 6,978.42                          | 2,712.38                             | 2,590.13                              | 22.188                   | CC             |
| Lone Tree Draw State Com 2H - Wellbore #1 - Wellbore   | 14,800.00                            | 6,978.42                          | 2,712.66                             | 2,589.79                              | 22.078                   | ES             |
| Lone Tree Draw State Com 2H - Wellbore #1 - Wellbore   | 15,300.00                            | 6,978.42                          | 2,765.47                             | 2,636.26                              | 21.402                   | SF             |
| Lone Tree State #001 - Wellbore #1 - Wellbore #1       | 15,937.60                            | 8,753.20                          | 1,101.53                             | 821.12                                | 3.928                    | Alert, CC, ES  |
| Lone Tree State #001 - Wellbore #1 - Wellbore #1       | 16,000.00                            | 8,753.20                          | 1,103.30                             | 821.91                                | 3.921                    | Alert, SF      |



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Summary                                                 |                               |                            |                               |                                |                   |                    |
|---------------------------------------------------------|-------------------------------|----------------------------|-------------------------------|--------------------------------|-------------------|--------------------|
| Site Name                                               | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning            |
| Offset Well - Wellbore - Design                         |                               |                            |                               |                                |                   |                    |
| Sec 14-T21S-R27E                                        |                               |                            |                               |                                |                   |                    |
| Allied State Com 1 (Active) - Wellbore #1 - Wellbore #1 | 10,620.27                     | 8,815.20                   | 1,541.35                      | 1,313.69                       | 6.770             | CC, ES             |
| Allied State Com 1 (Active) - Wellbore #1 - Wellbore #1 | 10,800.00                     | 8,815.20                   | 1,551.80                      | 1,321.49                       | 6.738             | SF                 |
| Esperanza 14 State #001 (Active) - Wellbore #1 - Wellbo | 2,000.00                      | 1,989.20                   | 1,457.98                      | 1,421.37                       | 39.826            | CC                 |
| Esperanza 14 State #001 (Active) - Wellbore #1 - Wellbo | 2,100.00                      | 2,089.19                   | 1,458.85                      | 1,420.38                       | 37.928            | ES                 |
| Esperanza 14 State #001 (Active) - Wellbore #1 - Wellbo | 9,600.00                      | 8,824.20                   | 2,446.62                      | 2,278.48                       | 14.551            | SF                 |
| Esperanza 14 State #002 (Active) - Wellbore #1 - Wellbo | 9,295.36                      | 8,821.20                   | 370.33                        | 157.96                         | 1.744             | Minor Risk, CC, ES |
| Esperanza 14 State #002 (Active) - Wellbore #1 - Wellbo | 9,300.00                      | 8,821.20                   | 370.36                        | 157.96                         | 1.744             | Minor Risk, SF     |
| Lone Tree Draw 14-13 State Com 331H - Wellbore #1 - P   | 7,265.16                      | 6,980.06                   | 1,482.62                      | 1,430.79                       | 28.605            | CC                 |
| Lone Tree Draw 14-13 State Com 331H - Wellbore #1 - P   | 19,308.27                     | 19,322.16                  | 1,759.45                      | 1,324.93                       | 4.049             | Alert, ES, SF      |
| Lone Tree Draw 14-13 State Com 332H - Wellbore #1 - P   | 7,685.06                      | 7,540.96                   | 884.48                        | 829.48                         | 16.081            | CC                 |
| Lone Tree Draw 14-13 State Com 332H - Wellbore #1 - P   | 19,308.27                     | 19,281.48                  | 890.92                        | 457.17                         | 2.054             | Minor Risk, ES, SF |
| Lone Tree Draw 14-13 State Com 334H - Wellbore #1 - P   | 2,000.00                      | 2,000.30                   | 29.97                         | 16.04                          | 2.152             | Minor Risk, CC, ES |
| Lone Tree Draw 14-13 State Com 334H - Wellbore #1 - P   | 19,308.27                     | 19,300.82                  | 863.71                        | 430.01                         | 1.991             | Minor Risk, SF     |
| Lone Tree Draw 14-13 State Com 335H - Wellbore #1 - W   | 2,104.93                      | 2,150.71                   | 1,703.67                      | 1,689.49                       | 120.110           | CC                 |
| Lone Tree Draw 14-13 State Com 335H - Wellbore #1 - W   | 19,221.83                     | 19,158.00                  | 1,768.30                      | 1,256.71                       | 3.456             | Alert, ES          |
| Lone Tree Draw 14-13 State Com 335H - Wellbore #1 - W   | 19,308.27                     | 19,158.00                  | 1,770.41                      | 1,258.04                       | 3.455             | Alert, SF          |
| Lone Tree Draw 14-13 State Com 336H - ST01 - ST01       | 2,044.39                      | 2,071.95                   | 1,725.46                      | 1,711.88                       | 127.110           | CC                 |
| Lone Tree Draw 14-13 State Com 336H - ST01 - ST01       | 2,100.00                      | 2,126.07                   | 1,725.74                      | 1,711.78                       | 123.592           | ES                 |
| Lone Tree Draw 14-13 State Com 336H - ST01 - ST01       | 18,800.00                     | 19,172.00                  | 2,868.68                      | 2,390.90                       | 6.004             | SF                 |
| Lone Tree Draw 14-13 State Com 336H - Wellbore #1 - W   | 2,044.39                      | 2,071.95                   | 1,725.46                      | 1,711.88                       | 127.110           | CC                 |
| Lone Tree Draw 14-13 State Com 336H - Wellbore #1 - W   | 2,100.00                      | 2,126.07                   | 1,725.74                      | 1,711.78                       | 123.592           | ES                 |
| Lone Tree Draw 14-13 State Com 336H - Wellbore #1 - W   | 9,900.00                      | 8,726.24                   | 3,057.73                      | 2,989.74                       | 44.975            | SF                 |
| Lone Tree Draw 14-13 State Com 621H - Wellbore #1 - P   | 7,315.04                      | 7,058.96                   | 1,340.01                      | 1,287.84                       | 25.687            | CC                 |
| Lone Tree Draw 14-13 State Com 621H - Wellbore #1 - P   | 19,308.27                     | 19,506.25                  | 1,415.97                      | 986.68                         | 3.298             | Alert, ES, SF      |
| Lone Tree Draw 14-13 State Com 623H - Wellbore #1 - P   | 2,000.00                      | 2,000.90                   | 59.98                         | 46.05                          | 4.306             | Alert, CC, ES      |
| Lone Tree Draw 14-13 State Com 623H - Wellbore #1 - P   | 19,308.27                     | 19,456.84                  | 1,379.82                      | 949.96                         | 3.210             | Alert, SF          |
| Lonetree 14 State Com #001 - Wellbore #1 - Wellbore #1  | 11,974.55                     | 8,785.20                   | 2,444.69                      | 2,240.81                       | 11.991            | CC                 |
| Lonetree 14 State Com #001 - Wellbore #1 - Wellbore #1  | 12,000.00                     | 8,785.20                   | 2,444.82                      | 2,240.48                       | 11.965            | ES                 |
| Lonetree 14 State Com #001 - Wellbore #1 - Wellbore #1  | 12,400.00                     | 8,785.20                   | 2,481.43                      | 2,270.75                       | 11.778            | SF                 |
| Magnolia State 2 (P&A) - Wellbore #1 - Wellbore #1      | 600.00                        | 577.20                     | 2,616.76                      | 2,464.53                       | 17.190            | CC, ES             |
| Magnolia State 2 (P&A) - Wellbore #1 - Wellbore #1      | 700.00                        | 563.00                     | 2,619.26                      | 2,466.83                       | 17.184            | SF                 |

|                                                                            |                     |                     |                     |                |             |                       |                                   |            |                      |                       |                         |                   |                    |         |
|----------------------------------------------------------------------------|---------------------|---------------------|---------------------|----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Offset Design                                                              |                     |                     |                     |                |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
| Sec 13-T21S-R27E - Lone Tree Draw 13 State 11H - Wellbore #1 - Wellbore #1 |                     |                     |                     |                |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Survey Program: 111-GYRO-NS-CT, 6243-MWD+HDGM                              |                     |                     |                     |                |             |                       |                                   |            |                      |                       |                         |                   |                    |         |
| Reference                                                                  |                     |                     | Offset              |                |             | Semi Major Axis       |                                   |            | Distance             |                       |                         |                   |                    |         |
| Measured Depth (ft)                                                        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning            |         |
| 0.00                                                                       | 0.00                | 0.00                | 0.00                | 0.50           | 5.02        | 66.55                 | 3,106.55                          | 7,162.72   | 7,807.60             |                       |                         |                   |                    |         |
| 100.00                                                                     | 100.00              | 28.07               | 28.07               | 0.52           | 5.03        | 66.55                 | 3,106.55                          | 7,162.75   | 7,807.42             | 7,801.88              | 5.54                    | 1,408.558         |                    |         |
| 200.00                                                                     | 200.00              | 94.59               | 94.59               | 0.70           | 5.03        | 66.55                 | 3,106.54                          | 7,163.04   | 7,807.82             | 7,802.09              | 5.73                    | 1,362.925         |                    |         |
| 300.00                                                                     | 300.00              | 221.49              | 221.49              | 0.99           | 5.05        | 66.56                 | 3,106.52                          | 7,163.64   | 7,808.24             | 7,802.20              | 6.04                    | 1,292.530         |                    |         |
| 400.00                                                                     | 400.00              | 282.21              | 282.20              | 1.31           | 5.08        | 66.56                 | 3,106.15                          | 7,164.14   | 7,808.76             | 7,802.37              | 6.39                    | 1,222.034         |                    |         |
| 500.00                                                                     | 500.00              | 601.63              | 601.53              | 1.65           | 5.37        | 66.61                 | 3,099.19                          | 7,164.14   | 7,807.38             | 7,800.37              | 7.01                    | 1,113.571         |                    |         |
| 600.00                                                                     | 600.00              | 670.37              | 670.25              | 1.99           | 5.46        | 66.62                 | 3,097.57                          | 7,163.51   | 7,805.59             | 7,798.15              | 7.45                    | 1,048.386         |                    |         |
| 700.00                                                                     | 700.00              | 792.57              | 792.41              | 2.34           | 5.64        | 66.63                 | 3,094.70                          | 7,162.37   | 7,803.80             | 7,795.83              | 7.97                    | 978.559           |                    |         |
| 800.00                                                                     | 800.00              | 888.48              | 888.29              | 2.69           | 5.80        | 66.64                 | 3,092.55                          | 7,161.33   | 7,801.91             | 7,793.43              | 8.49                    | 919.359           |                    |         |
| 900.00                                                                     | 900.00              | 994.05              | 993.83              | 3.04           | 6.00        | 66.65                 | 3,090.39                          | 7,160.07   | 7,800.01             | 7,790.97              | 9.03                    | 863.589           |                    |         |
| 1,000.00                                                                   | 1,000.00            | 1,135.37            | 1,135.11            | 3.40           | 6.29        | 66.67                 | 3,087.56                          | 7,158.04   | 7,797.94             | 7,788.27              | 9.67                    | 806.535           |                    |         |
| 1,100.00                                                                   | 1,100.00            | 1,304.96            | 1,304.61            | 3.75           | 6.67        | 66.68                 | 3,083.54                          | 7,154.29   | 7,794.93             | 7,784.54              | 10.39                   | 749.932           |                    |         |
| 1,200.00                                                                   | 1,200.00            | 1,453.16            | 1,452.71            | 4.11           | 7.03        | 66.69                 | 3,080.72                          | 7,149.55   | 7,791.24             | 7,780.14              | 11.10                   | 702.085           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 111-GYRO-NS-CT, 6243-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 1,300.00                                      | 1,300.00            | 1,559.66            | 1,559.11            | 4.46            | 7.30        | 66.70                 | 3,078.18                          | 7,145.97   | 7,787.20             | 7,775.49              | 11.72                   | 664.617           |                    |         |
| 1,400.00                                      | 1,400.00            | 1,653.29            | 1,652.66            | 4.82            | 7.55        | 66.70                 | 3,075.99                          | 7,142.76   | 7,783.13             | 7,770.82              | 12.31                   | 632.101           |                    |         |
| 1,500.00                                      | 1,500.00            | 1,732.99            | 1,732.30            | 5.18            | 7.77        | 66.71                 | 3,074.29                          | 7,140.17   | 7,779.29             | 7,766.41              | 12.88                   | 603.998           |                    |         |
| 1,600.00                                      | 1,600.00            | 1,828.18            | 1,827.42            | 5.53            | 8.03        | 66.71                 | 3,072.22                          | 7,137.21   | 7,775.58             | 7,762.09              | 13.49                   | 576.298           |                    |         |
| 1,700.00                                      | 1,700.00            | 1,955.61            | 1,954.76            | 5.89            | 8.39        | 66.72                 | 3,069.21                          | 7,133.47   | 7,772.01             | 7,757.81              | 14.20                   | 547.343           |                    |         |
| 1,800.00                                      | 1,800.00            | 2,140.39            | 2,139.31            | 6.25            | 8.95        | 66.75                 | 3,062.57                          | 7,126.85   | 7,767.18             | 7,752.10              | 15.08                   | 515.068           |                    |         |
| 1,900.00                                      | 1,900.00            | 2,251.33            | 2,250.07            | 6.61            | 9.29        | 66.76                 | 3,058.16                          | 7,122.41   | 7,761.93             | 7,746.16              | 15.76                   | 492.456           |                    |         |
| 2,000.00                                      | 2,000.00            | 2,352.43            | 2,351.01            | 6.96            | 9.61        | 66.78                 | 3,054.29                          | 7,118.30   | 7,756.68             | 7,740.26              | 16.42                   | 472.409           |                    |         |
| 2,100.00                                      | 2,099.99            | 2,470.88            | 2,469.27            | 7.32            | 9.99        | 79.63                 | 3,049.90                          | 7,113.27   | 7,751.16             | 7,734.02              | 17.13                   | 452.456           |                    |         |
| 2,200.00                                      | 2,199.96            | 2,558.19            | 2,556.44            | 7.68            | 10.28       | 79.72                 | 3,046.81                          | 7,109.43   | 7,745.25             | 7,727.49              | 17.75                   | 436.251           |                    |         |
| 2,300.00                                      | 2,299.86            | 2,634.61            | 2,632.74            | 8.04            | 10.53       | 79.81                 | 3,043.76                          | 7,106.40   | 7,739.26             | 7,720.91              | 18.35                   | 421.820           |                    |         |
| 2,400.00                                      | 2,399.68            | 2,764.61            | 2,762.54            | 8.39            | 10.95       | 79.96                 | 3,038.39                          | 7,101.43   | 7,733.08             | 7,713.97              | 19.11                   | 404.762           |                    |         |
| 2,500.00                                      | 2,499.37            | 2,876.96            | 2,874.69            | 8.75            | 11.33       | 80.10                 | 3,034.13                          | 7,096.46   | 7,726.14             | 7,706.33              | 19.81                   | 389.984           |                    |         |
| 2,600.00                                      | 2,598.90            | 2,961.15            | 2,958.74            | 9.11            | 11.61       | 80.24                 | 3,031.10                          | 7,092.70   | 7,718.96             | 7,698.53              | 20.43                   | 377.755           |                    |         |
| 2,700.00                                      | 2,698.26            | 3,040.53            | 3,037.99            | 9.46            | 11.88       | 80.39                 | 3,028.07                          | 7,089.43   | 7,711.73             | 7,690.69              | 21.04                   | 366.466           |                    |         |
| 2,800.00                                      | 2,797.40            | 3,145.58            | 3,142.89            | 9.82            | 12.24       | 80.58                 | 3,024.17                          | 7,085.16   | 7,704.33             | 7,682.59              | 21.73                   | 354.468           |                    |         |
| 2,900.00                                      | 2,896.30            | 3,250.35            | 3,247.50            | 10.18           | 12.59       | 80.78                 | 3,020.74                          | 7,080.58   | 7,696.56             | 7,674.14              | 22.43                   | 343.184           |                    |         |
| 3,000.00                                      | 2,994.93            | 3,341.90            | 3,338.92            | 10.54           | 12.91       | 80.98                 | 3,017.68                          | 7,076.65   | 7,688.60             | 7,665.52              | 23.08                   | 333.119           |                    |         |
| 3,100.00                                      | 3,093.26            | 3,449.71            | 3,446.56            | 10.90           | 13.28       | 81.22                 | 3,014.19                          | 7,071.89   | 7,680.33             | 7,656.54              | 23.79                   | 322.867           |                    |         |
| 3,195.07                                      | 3,186.42            | 3,538.48            | 3,535.20            | 11.24           | 13.58       | 81.44                 | 3,011.54                          | 7,067.87   | 7,672.27             | 7,647.85              | 24.42                   | 314.185           |                    |         |
| 3,200.00                                      | 3,191.25            | 3,543.28            | 3,540.00            | 11.26           | 13.60       | 81.45                 | 3,011.40                          | 7,067.65   | 7,671.85             | 7,647.39              | 24.45                   | 313.737           |                    |         |
| 3,300.00                                      | 3,289.08            | 3,638.80            | 3,635.37            | 11.62           | 13.93       | 81.60                 | 3,008.63                          | 7,063.31   | 7,663.33             | 7,638.20              | 25.13                   | 304.981           |                    |         |
| 3,400.00                                      | 3,386.91            | 3,728.96            | 3,725.42            | 11.98           | 14.24       | 81.74                 | 3,006.29                          | 7,059.17   | 7,654.92             | 7,629.14              | 25.79                   | 296.849           |                    |         |
| 3,500.00                                      | 3,484.74            | 3,816.32            | 3,812.66            | 12.35           | 14.54       | 81.88                 | 3,004.08                          | 7,055.25   | 7,646.70             | 7,620.26              | 26.44                   | 289.200           |                    |         |
| 3,600.00                                      | 3,582.58            | 3,908.71            | 3,904.93            | 12.72           | 14.86       | 82.03                 | 3,002.10                          | 7,051.06   | 7,638.63             | 7,611.52              | 27.11                   | 281.739           |                    |         |
| 3,700.00                                      | 3,680.41            | 4,000.13            | 3,996.24            | 13.09           | 15.18       | 82.17                 | 3,000.25                          | 7,046.93   | 7,630.68             | 7,602.90              | 27.78                   | 274.652           |                    |         |
| 3,800.00                                      | 3,778.24            | 4,089.31            | 4,085.31            | 13.46           | 15.48       | 82.31                 | 2,998.25                          | 7,043.07   | 7,622.88             | 7,594.43              | 28.45                   | 267.946           |                    |         |
| 3,900.00                                      | 3,876.08            | 4,168.30            | 4,164.21            | 13.83           | 15.76       | 82.43                 | 2,996.88                          | 7,039.65   | 7,615.31             | 7,586.23              | 29.08                   | 261.836           |                    |         |
| 4,000.00                                      | 3,973.91            | 4,238.91            | 4,234.76            | 14.21           | 15.99       | 82.54                 | 2,996.44                          | 7,036.52   | 7,608.08             | 7,578.39              | 29.69                   | 256.225           |                    |         |
| 4,100.00                                      | 4,071.74            | 4,302.16            | 4,297.94            | 14.58           | 16.20       | 82.63                 | 2,996.72                          | 7,033.71   | 7,601.28             | 7,571.01              | 30.28                   | 251.040           |                    |         |
| 4,200.00                                      | 4,169.57            | 4,366.98            | 4,362.70            | 14.96           | 16.42       | 82.71                 | 2,997.63                          | 7,030.98   | 7,595.05             | 7,564.17              | 30.87                   | 246.023           |                    |         |
| 4,300.00                                      | 4,267.41            | 4,508.38            | 4,503.95            | 15.33           | 16.88       | 82.90                 | 3,000.17                          | 7,024.90   | 7,589.00             | 7,557.29              | 31.71                   | 239.308           |                    |         |
| 4,400.00                                      | 4,365.24            | 4,603.54            | 4,598.94            | 15.71           | 17.19       | 83.02                 | 3,002.34                          | 7,019.92   | 7,582.23             | 7,549.83              | 32.41                   | 233.974           |                    |         |
| 4,500.00                                      | 4,463.07            | 8,702.32            | 6,792.40            | 16.09           | 38.91       | 102.47                | 882.92                            | 7,068.63   | 7,559.97             | 7,507.02              | 52.95                   | 142.776           |                    |         |
| 4,600.00                                      | 4,560.90            | 8,693.39            | 6,792.61            | 16.47           | 38.80       | 102.40                | 891.81                            | 7,067.95   | 7,532.68             | 7,479.31              | 53.37                   | 141.142           |                    |         |
| 4,700.00                                      | 4,658.74            | 8,684.21            | 6,792.87            | 16.85           | 38.68       | 102.33                | 900.96                            | 7,067.25   | 7,506.60             | 7,452.82              | 53.78                   | 139.572           |                    |         |
| 4,800.00                                      | 4,756.57            | 8,674.74            | 6,793.16            | 17.23           | 38.57       | 102.26                | 910.40                            | 7,066.54   | 7,481.73             | 7,427.54              | 54.19                   | 138.066           |                    |         |
| 4,900.00                                      | 4,854.40            | 8,643.00            | 6,794.41            | 17.61           | 38.18       | 102.01                | 942.03                            | 7,064.23   | 7,458.17             | 7,403.85              | 54.32                   | 137.295           |                    |         |
| 5,000.00                                      | 4,952.23            | 8,643.00            | 6,794.41            | 17.99           | 38.18       | 102.01                | 942.03                            | 7,064.23   | 7,435.72             | 7,380.88              | 54.84                   | 135.601           |                    |         |
| 5,100.00                                      | 5,050.07            | 8,643.00            | 6,794.41            | 18.37           | 38.18       | 102.01                | 942.03                            | 7,064.23   | 7,414.54             | 7,359.19              | 55.34                   | 133.970           |                    |         |
| 5,200.00                                      | 5,147.90            | 8,643.00            | 6,794.41            | 18.75           | 38.18       | 102.01                | 942.03                            | 7,064.23   | 7,394.66             | 7,338.81              | 55.85                   | 132.403           |                    |         |
| 5,300.00                                      | 5,245.73            | 8,643.00            | 6,794.41            | 19.14           | 38.18       | 102.01                | 942.03                            | 7,064.23   | 7,376.07             | 7,319.72              | 56.35                   | 130.898           |                    |         |
| 5,400.00                                      | 5,343.56            | 8,615.67            | 6,795.61            | 19.52           | 37.85       | 101.81                | 969.27                            | 7,062.37   | 7,358.67             | 7,302.15              | 56.52                   | 130.201           |                    |         |
| 5,500.00                                      | 5,441.40            | 8,606.22            | 6,796.01            | 19.90           | 37.73       | 101.73                | 978.69                            | 7,061.76   | 7,342.61             | 7,285.72              | 56.89                   | 129.058           |                    |         |
| 5,600.00                                      | 5,539.23            | 8,596.85            | 6,796.40            | 20.29           | 37.62       | 101.66                | 988.04                            | 7,061.19   | 7,327.86             | 7,270.59              | 57.26                   | 127.965           |                    |         |
| 5,700.00                                      | 5,637.06            | 8,587.54            | 6,796.78            | 20.67           | 37.51       | 101.59                | 997.32                            | 7,060.64   | 7,314.40             | 7,256.77              | 57.63                   | 126.921           |                    |         |
| 5,800.00                                      | 5,734.90            | 8,578.31            | 6,797.15            | 21.05           | 37.40       | 101.52                | 1,006.53                          | 7,060.11   | 7,302.27             | 7,244.28              | 57.99                   | 125.925           |                    |         |
| 5,900.00                                      | 5,832.73            | 8,549.00            | 6,798.26            | 21.44           | 37.04       | 101.30                | 1,035.78                          | 7,058.58   | 7,291.52             | 7,233.42              | 58.10                   | 125.498           |                    |         |
| 6,000.00                                      | 5,930.56            | 6,000.00            | 6,798.21            | 21.83           | 22.52       | 101.31                | 1,034.08                          | 7,058.67   | 7,281.98             | 7,252.07              | 29.91                   | 243.478           |                    |         |
| 6,100.00                                      | 6,028.39            | 8,561.65            | 6,797.80            | 22.21           | 37.19       | 101.39                | 1,023.15                          | 7,059.19   | 7,273.79             | 7,214.64              | 59.15                   | 122.962           |                    |         |
| 6,200.00                                      | 6,126.23            | 8,505.59            | 6,799.80            | 22.60           | 36.53       | 100.96                | 1,079.11                          | 7,056.39   | 7,266.93             | 7,207.99              | 58.94                   | 123.302           |                    |         |
| 6,300.00                                      | 6,224.06            | 8,452.77            | 6,801.53            | 22.98           | 35.91       | 100.56                | 1,131.82                          | 7,053.54   | 7,261.26             | 7,202.51              | 58.75                   | 123.601           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 111-GYRO-NS-CT, 6243-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 6,400.00                                      | 6,321.89            | 8,432.15            | 6,802.13            | 23.37           | 35.67       | 100.40                | 1,152.40                          | 7,052.40   | 7,256.84             | 7,197.91              | 58.93                   | 123.135           |                    |         |
| 6,500.00                                      | 6,419.72            | 8,412.36            | 6,802.60            | 23.76           | 35.44       | 100.25                | 1,172.15                          | 7,051.32   | 7,253.74             | 7,194.61              | 59.12                   | 122.690           |                    |         |
| 6,600.00                                      | 6,517.56            | 8,393.35            | 6,802.96            | 24.14           | 35.22       | 100.10                | 1,191.13                          | 7,050.29   | 7,251.95             | 7,192.64              | 59.31                   | 122.269           |                    |         |
| 6,685.07                                      | 6,600.78            | 8,377.77            | 6,803.20            | 24.47           | 35.04       | 99.98                 | 1,206.70                          | 7,049.46   | 7,251.47             | 7,192.00              | 59.47                   | 121.930           |                    |         |
| 6,700.00                                      | 6,615.39            | 8,375.08            | 6,803.23            | 24.53           | 35.01       | 99.96                 | 1,209.38                          | 7,049.32   | 7,251.49             | 7,191.99              | 59.50                   | 121.872           |                    |         |
| 6,800.00                                      | 6,713.22            | 8,359.00            | 6,803.40            | 24.92           | 34.82       | 99.83                 | 1,225.43                          | 7,048.47   | 7,252.35             | 7,192.64              | 59.71                   | 121.466           |                    |         |
| 6,900.00                                      | 6,811.05            | 8,359.00            | 6,803.40            | 25.30           | 34.82       | 99.83                 | 1,225.43                          | 7,048.47   | 7,254.57             | 7,194.48              | 60.09                   | 120.727           |                    |         |
| 7,000.00                                      | 6,908.89            | 8,359.00            | 6,803.40            | 25.69           | 34.82       | 99.83                 | 1,225.43                          | 7,048.47   | 7,258.16             | 7,197.70              | 60.47                   | 120.038           |                    |         |
| 7,100.00                                      | 7,006.72            | 8,359.00            | 6,803.40            | 26.08           | 34.82       | 99.83                 | 1,225.43                          | 7,048.47   | 7,263.13             | 7,202.30              | 60.83                   | 119.398           |                    |         |
| 7,200.00                                      | 7,104.55            | 8,359.00            | 6,803.40            | 26.47           | 34.82       | 99.83                 | 1,225.43                          | 7,048.47   | 7,269.48             | 7,208.29              | 61.19                   | 118.806           |                    |         |
| 7,216.87                                      | 7,121.05            | 8,359.00            | 6,803.40            | 26.53           | 34.82       | 99.83                 | 1,225.43                          | 7,048.47   | 7,270.68             | 7,209.43              | 61.25                   | 118.711           |                    |         |
| 7,300.00                                      | 7,202.57            | 8,324.70            | 6,803.76            | 26.85           | 34.44       | 99.66                 | 1,259.69                          | 7,046.85   | 7,276.78             | 7,215.63              | 61.15                   | 119.000           |                    |         |
| 7,400.00                                      | 7,301.06            | 8,318.88            | 6,803.83            | 27.23           | 34.37       | 99.74                 | 1,265.51                          | 7,046.61   | 7,285.17             | 7,223.75              | 61.42                   | 118.621           |                    |         |
| 7,500.00                                      | 7,399.97            | 8,313.83            | 6,803.89            | 27.61           | 34.31       | 99.84                 | 1,270.55                          | 7,046.41   | 7,294.46             | 7,232.79              | 61.68                   | 118.272           |                    |         |
| 7,600.00                                      | 7,499.23            | 8,309.58            | 6,803.95            | 27.98           | 34.26       | 99.96                 | 1,274.80                          | 7,046.25   | 7,304.66             | 7,242.73              | 61.93                   | 117.952           |                    |         |
| 7,700.00                                      | 7,598.77            | 8,306.14            | 6,803.99            | 28.34           | 34.23       | 100.10                | 1,278.24                          | 7,046.12   | 7,315.75             | 7,253.58              | 62.18                   | 117.661           |                    |         |
| 7,800.00                                      | 7,698.53            | 8,303.50            | 6,804.03            | 28.70           | 34.20       | 100.25                | 1,280.88                          | 7,046.02   | 7,327.74             | 7,265.32              | 62.42                   | 117.399           |                    |         |
| 7,900.00                                      | 7,798.44            | 8,301.68            | 6,804.06            | 29.05           | 34.18       | 100.43                | 1,282.69                          | 7,045.96   | 7,340.60             | 7,277.95              | 62.65                   | 117.165           |                    |         |
| 8,000.00                                      | 7,898.42            | 8,300.69            | 6,804.07            | 29.39           | 34.16       | 100.63                | 1,283.68                          | 7,045.92   | 7,354.33             | 7,291.45              | 62.88                   | 116.957           |                    |         |
| 8,013.58                                      | 7,912.00            | 8,300.62            | 6,804.07            | 29.43           | 34.16       | 87.88                 | 1,283.75                          | 7,045.92   | 7,356.26             | 7,293.35              | 62.91                   | 116.931           |                    |         |
| 8,100.00                                      | 7,998.42            | 8,300.22            | 6,804.08            | 29.73           | 34.16       | 87.87                 | 1,284.15                          | 7,045.91   | 7,369.10             | 7,305.99              | 63.10                   | 116.779           |                    |         |
| 8,200.00                                      | 8,098.42            | 8,299.75            | 6,804.08            | 30.07           | 34.15       | 87.87                 | 1,284.62                          | 7,045.89   | 7,385.18             | 7,321.86              | 63.32                   | 116.639           |                    |         |
| 8,300.00                                      | 8,198.42            | 8,299.29            | 6,804.09            | 30.41           | 34.15       | 87.87                 | 1,285.09                          | 7,045.88   | 7,402.58             | 7,339.06              | 63.52                   | 116.536           |                    |         |
| 8,363.62                                      | 8,262.04            | 8,298.99            | 6,804.09            | 30.62           | 34.15       | 87.86                 | 1,285.39                          | 7,045.87   | 7,414.33             | 7,350.68              | 63.65                   | 116.489           |                    |         |
| 8,400.00                                      | 8,298.40            | 8,298.83            | 6,804.10            | 30.75           | 34.14       | -1.78                 | 1,285.55                          | 7,045.86   | 7,420.15             | 7,356.43              | 63.72                   | 116.458           |                    |         |
| 8,450.00                                      | 8,348.10            | 8,298.64            | 6,804.10            | 30.91           | 34.14       | -1.76                 | 1,285.73                          | 7,045.85   | 7,424.70             | 7,360.90              | 63.80                   | 116.374           |                    |         |
| 8,500.00                                      | 8,397.14            | 8,298.50            | 6,804.10            | 31.07           | 34.14       | -1.76                 | 1,285.87                          | 7,045.85   | 7,425.23             | 7,361.34              | 63.88                   | 116.236           |                    |         |
| 8,550.00                                      | 8,445.15            | 8,298.40            | 6,804.10            | 31.23           | 34.14       | -1.78                 | 1,285.97                          | 7,045.85   | 7,421.73             | 7,357.78              | 63.95                   | 116.046           |                    |         |
| 8,600.00                                      | 8,491.77            | 8,298.35            | 6,804.10            | 31.38           | 34.14       | -1.80                 | 1,286.02                          | 7,045.84   | 7,414.24             | 7,350.22              | 64.02                   | 115.807           |                    |         |
| 8,650.00                                      | 8,536.65            | 8,298.34            | 6,804.10            | 31.52           | 34.14       | -1.84                 | 1,286.03                          | 7,045.84   | 7,402.80             | 7,338.71              | 64.08                   | 115.521           |                    |         |
| 8,700.00                                      | 8,579.43            | 8,298.38            | 6,804.10            | 31.66           | 34.14       | -1.89                 | 1,285.99                          | 7,045.84   | 7,387.46             | 7,323.33              | 64.13                   | 115.190           |                    |         |
| 8,750.00                                      | 8,619.80            | 8,298.47            | 6,804.10            | 31.80           | 34.14       | -1.96                 | 1,285.90                          | 7,045.85   | 7,368.34             | 7,304.16              | 64.17                   | 114.817           |                    |         |
| 8,800.00                                      | 8,657.44            | 8,298.60            | 6,804.10            | 31.93           | 34.14       | -2.05                 | 1,285.77                          | 7,045.85   | 7,345.54             | 7,281.33              | 64.21                   | 114.403           |                    |         |
| 8,850.00                                      | 8,692.08            | 8,298.78            | 6,804.10            | 32.06           | 34.14       | -2.16                 | 1,285.59                          | 7,045.86   | 7,319.20             | 7,254.96              | 64.23                   | 113.950           |                    |         |
| 8,900.00                                      | 8,723.44            | 8,299.01            | 6,804.09            | 32.19           | 34.15       | -2.30                 | 1,285.36                          | 7,045.87   | 7,289.48             | 7,225.24              | 64.25                   | 113.461           |                    |         |
| 8,950.00                                      | 8,751.29            | 8,299.28            | 6,804.09            | 32.34           | 34.15       | -2.48                 | 1,285.09                          | 7,045.88   | 7,256.58             | 7,192.33              | 64.25                   | 112.937           |                    |         |
| 9,000.00                                      | 8,775.42            | 8,299.60            | 6,804.08            | 32.50           | 34.15       | -2.71                 | 1,284.78                          | 7,045.89   | 7,220.71             | 7,156.45              | 64.25                   | 112.381           |                    |         |
| 9,050.00                                      | 8,795.64            | 8,299.95            | 6,804.08            | 32.67           | 34.16       | -3.01                 | 1,284.42                          | 7,045.90   | 7,182.08             | 7,117.84              | 64.24                   | 111.793           |                    |         |
| 9,100.00                                      | 8,811.80            | 8,300.35            | 6,804.07            | 32.87           | 34.16       | -3.41                 | 1,284.02                          | 7,045.91   | 7,140.96             | 7,076.73              | 64.23                   | 111.175           |                    |         |
| 9,150.00                                      | 8,823.77            | 8,300.78            | 6,804.07            | 33.10           | 34.17       | -3.96                 | 1,283.59                          | 7,045.93   | 7,097.61             | 7,033.40              | 64.21                   | 110.530           |                    |         |
| 9,200.00                                      | 8,831.47            | 8,301.25            | 6,804.06            | 33.34           | 34.17       | -4.77                 | 1,283.12                          | 7,045.94   | 7,052.34             | 6,988.14              | 64.19                   | 109.859           |                    |         |
| 9,250.00                                      | 8,834.84            | 8,301.76            | 6,804.05            | 33.60           | 34.18       | -6.03                 | 1,282.62                          | 7,045.96   | 7,005.44             | 6,941.27              | 64.17                   | 109.164           |                    |         |
| 9,263.62                                      | 8,835.00            | 8,301.90            | 6,804.05            | 33.67           | 34.18       | -6.51                 | 1,282.48                          | 7,045.97   | 6,992.43             | 6,928.26              | 64.17                   | 108.968           |                    |         |
| 9,300.00                                      | 8,835.00            | 8,302.28            | 6,804.05            | 33.88           | 34.18       | -6.50                 | 1,282.10                          | 7,045.98   | 6,957.55             | 6,893.40              | 64.15                   | 108.455           |                    |         |
| 9,400.00                                      | 8,835.00            | 8,303.35            | 6,804.03            | 34.53           | 34.19       | -6.47                 | 1,281.03                          | 7,046.02   | 6,861.77             | 6,797.67              | 64.10                   | 107.044           |                    |         |
| 9,500.00                                      | 8,835.00            | 8,304.44            | 6,804.02            | 35.30           | 34.21       | -6.44                 | 1,279.94                          | 7,046.06   | 6,766.11             | 6,702.06              | 64.05                   | 105.632           |                    |         |
| 9,600.00                                      | 8,835.00            | 8,305.55            | 6,804.00            | 36.17           | 34.22       | -6.40                 | 1,278.83                          | 7,046.10   | 6,670.58             | 6,606.57              | 64.01                   | 104.219           |                    |         |
| 9,700.00                                      | 8,835.00            | 8,306.69            | 6,803.99            | 37.13           | 34.23       | -6.37                 | 1,277.69                          | 7,046.14   | 6,575.18             | 6,511.22              | 63.96                   | 102.804           |                    |         |
| 9,800.00                                      | 8,835.00            | 8,307.85            | 6,803.97            | 38.18           | 34.25       | -6.34                 | 1,276.53                          | 7,046.18   | 6,479.92             | 6,416.00              | 63.91                   | 101.388           |                    |         |
| 9,900.00                                      | 8,835.00            | 8,309.04            | 6,803.95            | 39.31           | 34.26       | -6.30                 | 1,275.34                          | 7,046.23   | 6,384.80             | 6,320.93              | 63.87                   | 99.970            |                    |         |
| 10,000.00                                     | 8,835.00            | 8,310.26            | 6,803.94            | 40.51           | 34.27       | -6.27                 | 1,274.12                          | 7,046.27   | 6,289.83             | 6,226.01              | 63.82                   | 98.551            |                    |         |
| 10,100.00                                     | 8,835.00            | 8,311.51            | 6,803.92            | 41.78           | 34.29       | -6.23                 | 1,272.87                          | 7,046.32   | 6,195.02             | 6,131.24              | 63.78                   | 97.132            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 111-GYRO-NS-CT, 6243-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 10,200.00                                     | 8,835.00            | 8,312.78            | 6,803.90            | 43.10           | 34.30       | -6.20                 | 1,271.60                          | 7,046.37   | 6,100.38             | 6,036.64              | 63.74                   | 95.710            |                    |         |
| 10,300.00                                     | 8,835.00            | 8,314.09            | 6,803.89            | 44.49           | 34.32       | -6.16                 | 1,270.30                          | 7,046.42   | 6,005.91             | 5,942.21              | 63.70                   | 94.288            |                    |         |
| 10,400.00                                     | 8,835.00            | 8,315.43            | 6,803.87            | 45.92           | 34.33       | -6.12                 | 1,268.96                          | 7,046.47   | 5,911.62             | 5,847.96              | 63.66                   | 92.865            |                    |         |
| 10,500.00                                     | 8,835.00            | 8,316.80            | 6,803.85            | 47.39           | 34.35       | -6.08                 | 1,267.59                          | 7,046.53   | 5,817.52             | 5,753.90              | 63.62                   | 91.440            |                    |         |
| 10,600.00                                     | 8,835.00            | 8,318.20            | 6,803.84            | 48.91           | 34.36       | -6.04                 | 1,266.19                          | 7,046.58   | 5,723.62             | 5,660.03              | 63.59                   | 90.015            |                    |         |
| 10,700.00                                     | 8,835.00            | 8,319.64            | 6,803.82            | 50.47           | 34.38       | -6.00                 | 1,264.75                          | 7,046.64   | 5,629.93             | 5,566.38              | 63.55                   | 88.588            |                    |         |
| 10,800.00                                     | 8,835.00            | 8,321.11            | 6,803.80            | 52.06           | 34.39       | -5.96                 | 1,263.28                          | 7,046.70   | 5,536.46             | 5,472.94              | 63.52                   | 87.161            |                    |         |
| 10,900.00                                     | 8,835.00            | 8,322.62            | 6,803.78            | 53.68           | 34.41       | -5.91                 | 1,261.77                          | 7,046.76   | 5,443.22             | 5,379.73              | 63.49                   | 85.733            |                    |         |
| 11,000.00                                     | 8,835.00            | 8,324.17            | 6,803.76            | 55.32           | 34.43       | -5.87                 | 1,260.22                          | 7,046.83   | 5,350.22             | 5,286.76              | 63.46                   | 84.304            |                    |         |
| 11,100.00                                     | 8,835.00            | 8,325.77            | 6,803.74            | 57.00           | 34.45       | -5.82                 | 1,258.63                          | 7,046.90   | 5,257.48             | 5,194.04              | 63.44                   | 82.874            |                    |         |
| 11,200.00                                     | 8,835.00            | 8,327.40            | 6,803.72            | 58.70           | 34.47       | -5.78                 | 1,257.00                          | 7,046.97   | 5,165.01             | 5,101.59              | 63.42                   | 81.443            |                    |         |
| 11,300.00                                     | 8,835.00            | 8,329.08            | 6,803.71            | 60.41           | 34.48       | -5.73                 | 1,255.32                          | 7,047.04   | 5,072.82             | 5,009.42              | 63.40                   | 80.012            |                    |         |
| 11,400.00                                     | 8,835.00            | 8,330.80            | 6,803.69            | 62.15           | 34.50       | -5.68                 | 1,253.60                          | 7,047.11   | 4,980.93             | 4,917.55              | 63.39                   | 78.580            |                    |         |
| 11,500.00                                     | 8,835.00            | 8,332.57            | 6,803.67            | 63.91           | 34.52       | -5.63                 | 1,251.83                          | 7,047.19   | 4,889.36             | 4,825.99              | 63.38                   | 77.148            |                    |         |
| 11,600.00                                     | 8,835.00            | 8,334.40            | 6,803.65            | 65.69           | 34.54       | -5.57                 | 1,250.01                          | 7,047.27   | 4,798.13             | 4,734.76              | 63.37                   | 75.715            |                    |         |
| 11,700.00                                     | 8,835.00            | 8,336.27            | 6,803.62            | 67.47           | 34.57       | -5.52                 | 1,248.14                          | 7,047.36   | 4,707.25             | 4,643.88              | 63.37                   | 74.282            |                    |         |
| 11,800.00                                     | 8,835.00            | 8,338.20            | 6,803.60            | 69.28           | 34.59       | -5.47                 | 1,246.21                          | 7,047.45   | 4,616.74             | 4,553.37              | 63.37                   | 72.848            |                    |         |
| 11,900.00                                     | 8,835.00            | 8,339.00            | 6,803.40            | 71.09           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 4,526.72             | 4,463.17              | 63.55                   | 71.232            |                    |         |
| 12,000.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 72.92           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 4,437.02             | 4,373.47              | 63.54                   | 69.825            |                    |         |
| 12,100.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 74.76           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 4,347.76             | 4,284.22              | 63.55                   | 68.418            |                    |         |
| 12,200.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 76.61           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 4,258.99             | 4,195.43              | 63.56                   | 67.010            |                    |         |
| 12,300.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 78.47           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 4,170.72             | 4,107.15              | 63.58                   | 65.602            |                    |         |
| 12,400.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 80.34           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 4,083.00             | 4,019.40              | 63.60                   | 64.193            |                    |         |
| 12,500.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 82.22           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 3,995.85             | 3,932.21              | 63.64                   | 62.786            |                    |         |
| 12,600.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 84.11           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 3,909.32             | 3,845.63              | 63.69                   | 61.378            |                    |         |
| 12,700.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 86.00           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 3,823.45             | 3,759.69              | 63.75                   | 59.972            |                    |         |
| 12,800.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 87.90           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 3,738.27             | 3,674.44              | 63.83                   | 58.567            |                    |         |
| 12,900.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 89.81           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 3,653.85             | 3,589.93              | 63.92                   | 57.164            |                    |         |
| 13,000.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 91.72           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 3,570.24             | 3,506.21              | 64.02                   | 55.764            |                    |         |
| 13,100.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 93.64           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 3,487.48             | 3,423.33              | 64.15                   | 54.367            |                    |         |
| 13,200.00                                     | 8,835.00            | 8,373.08            | 6,803.26            | 95.56           | 34.98       | -4.46                 | 1,211.37                          | 7,049.21   | 3,405.61             | 3,341.24              | 64.37                   | 52.911            |                    |         |
| 13,300.00                                     | 8,835.00            | 8,376.07            | 6,803.22            | 97.49           | 35.02       | -4.37                 | 1,208.39                          | 7,049.37   | 3,324.75             | 3,260.21              | 64.54                   | 51.518            |                    |         |
| 13,400.00                                     | 8,835.00            | 8,379.07            | 6,803.18            | 99.42           | 35.05       | -4.29                 | 1,205.39                          | 7,049.53   | 3,244.96             | 3,180.23              | 64.72                   | 50.135            |                    |         |
| 13,500.00                                     | 8,835.00            | 8,382.09            | 6,803.14            | 101.36          | 35.09       | -4.20                 | 1,202.38                          | 7,049.69   | 3,166.30             | 3,101.37              | 64.93                   | 48.763            |                    |         |
| 13,600.00                                     | 8,835.00            | 8,385.11            | 6,803.09            | 103.30          | 35.12       | -4.11                 | 1,199.36                          | 7,049.85   | 3,088.88             | 3,023.72              | 65.16                   | 47.403            |                    |         |
| 13,700.00                                     | 8,835.00            | 8,388.16            | 6,803.05            | 105.25          | 35.16       | -4.03                 | 1,196.32                          | 7,050.01   | 3,012.79             | 2,947.37              | 65.41                   | 46.057            |                    |         |
| 13,800.00                                     | 8,835.00            | 8,391.22            | 6,803.00            | 107.20          | 35.19       | -3.94                 | 1,193.27                          | 7,050.18   | 2,938.12             | 2,872.43              | 65.69                   | 44.728            |                    |         |
| 13,900.00                                     | 8,835.00            | 8,394.29            | 6,802.95            | 109.15          | 35.23       | -3.85                 | 1,190.20                          | 7,050.34   | 2,864.99             | 2,799.01              | 65.99                   | 43.418            |                    |         |
| 14,000.00                                     | 8,835.00            | 8,397.38            | 6,802.89            | 111.10          | 35.27       | -3.76                 | 1,187.12                          | 7,050.51   | 2,793.52             | 2,727.22              | 66.31                   | 42.129            |                    |         |
| 14,100.00                                     | 8,835.00            | 8,400.48            | 6,802.83            | 113.06          | 35.30       | -3.67                 | 1,184.02                          | 7,050.67   | 2,723.85             | 2,657.19              | 66.66                   | 40.865            |                    |         |
| 14,200.00                                     | 8,835.00            | 8,403.60            | 6,802.78            | 115.03          | 35.34       | -3.58                 | 1,180.91                          | 7,050.84   | 2,656.10             | 2,589.08              | 67.03                   | 39.627            |                    |         |
| 14,300.00                                     | 8,835.00            | 8,406.73            | 6,802.71            | 116.99          | 35.37       | -3.49                 | 1,177.78                          | 7,051.01   | 2,590.44             | 2,523.02              | 67.43                   | 38.419            |                    |         |
| 14,400.00                                     | 8,835.00            | 8,409.87            | 6,802.65            | 118.96          | 35.41       | -3.40                 | 1,174.64                          | 7,051.18   | 2,527.03             | 2,459.18              | 67.85                   | 37.246            |                    |         |
| 14,500.00                                     | 8,835.00            | 8,413.03            | 6,802.58            | 120.93          | 35.45       | -3.31                 | 1,171.48                          | 7,051.35   | 2,466.04             | 2,397.74              | 68.29                   | 36.109            |                    |         |
| 14,600.00                                     | 8,835.00            | 8,416.21            | 6,802.51            | 122.90          | 35.48       | -3.21                 | 1,168.31                          | 7,051.53   | 2,407.64             | 2,338.88              | 68.76                   | 35.013            |                    |         |
| 14,700.00                                     | 8,835.00            | 8,419.40            | 6,802.44            | 124.88          | 35.52       | -3.12                 | 1,165.13                          | 7,051.70   | 2,352.05             | 2,282.79              | 69.26                   | 33.961            |                    |         |
| 14,800.00                                     | 8,835.00            | 8,422.61            | 6,802.36            | 126.86          | 35.56       | -3.03                 | 1,161.93                          | 7,051.87   | 2,299.46             | 2,229.69              | 69.77                   | 32.958            |                    |         |
| 14,900.00                                     | 8,835.00            | 8,425.83            | 6,802.29            | 128.84          | 35.60       | -2.94                 | 1,158.71                          | 7,052.05   | 2,250.07             | 2,179.77              | 70.30                   | 32.005            |                    |         |
| 15,000.00                                     | 8,835.00            | 8,429.07            | 6,802.20            | 130.82          | 35.63       | -2.84                 | 1,155.48                          | 7,052.23   | 2,204.12             | 2,133.26              | 70.86                   | 31.107            |                    |         |
| 15,100.00                                     | 8,835.00            | 8,432.32            | 6,802.12            | 132.80          | 35.67       | -2.75                 | 1,152.23                          | 7,052.41   | 2,161.80             | 2,090.37              | 71.43                   | 30.265            |                    |         |
| 15,200.00                                     | 8,835.00            | 8,435.59            | 6,802.03            | 134.79          | 35.71       | -2.65                 | 1,148.97                          | 7,052.59   | 2,123.35             | 2,051.33              | 72.02                   | 29.481            |                    |         |
| 15,300.00                                     | 8,835.00            | 8,438.88            | 6,801.94            | 136.78          | 35.75       | -2.56                 | 1,145.69                          | 7,052.77   | 2,088.98             | 2,016.34              | 72.64                   | 28.758            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 111-GYRO-NS-CT, 6243-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 15,400.00                                     | 8,835.00            | 8,442.18            | 6,801.85            | 138.76          | 35.79       | -2.46                 | 1,142.39                          | 7,052.95   | 2,058.88             | 1,985.60              | 73.28                   | 28.095            |                    |         |
| 15,500.00                                     | 8,835.00            | 8,454.00            | 6,801.50            | 140.76          | 35.92       | -2.12                 | 1,130.59                          | 7,053.61   | 2,033.28             | 1,959.35              | 73.93                   | 27.504            |                    |         |
| 15,600.00                                     | 8,835.00            | 8,454.00            | 6,801.50            | 142.75          | 35.92       | -2.12                 | 1,130.59                          | 7,053.61   | 2,012.28             | 1,937.63              | 74.65                   | 26.956            |                    |         |
| 15,700.00                                     | 8,835.00            | 8,454.00            | 6,801.50            | 144.74          | 35.92       | -2.12                 | 1,130.59                          | 7,053.61   | 1,996.07             | 1,920.65              | 75.42                   | 26.465            |                    |         |
| 15,800.00                                     | 8,835.00            | 8,456.09            | 6,801.43            | 146.74          | 35.95       | -2.06                 | 1,128.51                          | 7,053.72   | 1,984.77             | 1,908.54              | 76.24                   | 26.035            |                    |         |
| 15,900.00                                     | 8,835.00            | 8,460.59            | 6,801.29            | 148.73          | 36.00       | -1.93                 | 1,124.02                          | 7,053.97   | 1,978.46             | 1,901.37              | 77.09                   | 25.665            |                    |         |
| 15,975.33                                     | 8,835.00            | 8,463.95            | 6,801.18            | 150.24          | 36.04       | -1.83                 | 1,120.67                          | 7,054.16   | 1,977.03             | 1,899.27              | 77.76                   | 25.423 CC         |                    |         |
| 16,000.00                                     | 8,835.00            | 8,465.04            | 6,801.15            | 150.73          | 36.05       | -1.80                 | 1,119.58                          | 7,054.22   | 1,977.18             | 1,899.19              | 77.99                   | 25.351 ES         |                    |         |
| 16,100.00                                     | 8,835.00            | 8,469.42            | 6,801.00            | 152.73          | 36.10       | -1.68                 | 1,115.20                          | 7,054.46   | 1,980.95             | 1,902.01              | 78.94                   | 25.096            |                    |         |
| 16,200.00                                     | 8,835.00            | 8,473.75            | 6,800.86            | 154.73          | 36.16       | -1.55                 | 1,110.88                          | 7,054.70   | 1,989.73             | 1,909.82              | 79.91                   | 24.900            |                    |         |
| 16,300.00                                     | 8,835.00            | 8,478.03            | 6,800.73            | 156.73          | 36.21       | -1.43                 | 1,106.62                          | 7,054.93   | 2,003.46             | 1,922.56              | 80.89                   | 24.766            |                    |         |
| 16,400.00                                     | 8,835.00            | 8,482.24            | 6,800.59            | 158.74          | 36.26       | -1.30                 | 1,102.41                          | 7,055.15   | 2,022.03             | 1,940.16              | 81.87                   | 24.697            |                    |         |
| 16,500.00                                     | 8,835.00            | 8,486.41            | 6,800.45            | 160.74          | 36.30       | -1.18                 | 1,098.25                          | 7,055.38   | 2,045.33             | 1,962.50              | 82.83                   | 24.694            |                    |         |
| 16,600.00                                     | 8,835.00            | 8,490.52            | 6,800.31            | 162.74          | 36.35       | -1.06                 | 1,094.15                          | 7,055.60   | 2,073.17             | 1,989.44              | 83.74                   | 24.758            |                    |         |
| 16,700.00                                     | 8,835.00            | 8,494.58            | 6,800.18            | 164.75          | 36.40       | -0.95                 | 1,090.10                          | 7,055.81   | 2,105.40             | 2,020.81              | 84.59                   | 24.888            |                    |         |
| 16,800.00                                     | 8,835.00            | 8,498.59            | 6,800.04            | 166.76          | 36.45       | -0.83                 | 1,086.10                          | 7,056.02   | 2,141.81             | 2,056.42              | 85.38                   | 25.084            |                    |         |
| 16,900.00                                     | 8,835.00            | 8,502.54            | 6,799.91            | 168.77          | 36.49       | -0.72                 | 1,082.15                          | 7,056.23   | 2,182.18             | 2,096.08              | 86.10                   | 25.343            |                    |         |
| 17,000.00                                     | 8,835.00            | 8,506.45            | 6,799.77            | 170.77          | 36.54       | -0.60                 | 1,078.25                          | 7,056.43   | 2,226.31             | 2,139.56              | 86.75                   | 25.663            |                    |         |
| 17,100.00                                     | 8,835.00            | 8,510.31            | 6,799.64            | 172.78          | 36.59       | -0.49                 | 1,074.39                          | 7,056.63   | 2,273.98             | 2,186.66              | 87.32                   | 26.042            |                    |         |
| 17,200.00                                     | 8,835.00            | 8,514.13            | 6,799.51            | 174.79          | 36.63       | -0.38                 | 1,070.59                          | 7,056.83   | 2,324.96             | 2,237.15              | 87.82                   | 26.475            |                    |         |
| 17,300.00                                     | 8,835.00            | 8,517.89            | 6,799.38            | 176.81          | 36.68       | -0.27                 | 1,066.83                          | 7,057.02   | 2,379.05             | 2,290.81              | 88.25                   | 26.959            |                    |         |
| 17,400.00                                     | 8,835.00            | 8,521.61            | 6,799.25            | 178.82          | 36.72       | -0.16                 | 1,063.11                          | 7,057.21   | 2,436.04             | 2,347.43              | 88.61                   | 27.491            |                    |         |
| 17,500.00                                     | 8,835.00            | 8,525.29            | 6,799.12            | 180.83          | 36.76       | -0.06                 | 1,059.45                          | 7,057.40   | 2,495.73             | 2,406.82              | 88.92                   | 28.068            |                    |         |
| 17,600.00                                     | 8,835.00            | 8,528.92            | 6,798.99            | 182.84          | 36.81       | 0.05                  | 1,055.82                          | 7,057.58   | 2,557.94             | 2,468.77              | 89.17                   | 28.687            |                    |         |
| 17,700.00                                     | 8,835.00            | 8,532.51            | 6,798.86            | 184.86          | 36.85       | 0.15                  | 1,052.24                          | 7,057.76   | 2,622.47             | 2,533.10              | 89.37                   | 29.344            |                    |         |
| 17,800.00                                     | 8,835.00            | 8,536.06            | 6,798.73            | 186.87          | 36.89       | 0.25                  | 1,048.70                          | 7,057.94   | 2,689.17             | 2,599.64              | 89.53                   | 30.036            |                    |         |
| 17,900.00                                     | 8,835.00            | 8,539.56            | 6,798.61            | 188.89          | 36.93       | 0.35                  | 1,045.20                          | 7,058.11   | 2,757.87             | 2,668.22              | 89.66                   | 30.761            |                    |         |
| 18,000.00                                     | 8,835.00            | 8,543.03            | 6,798.48            | 190.91          | 36.97       | 0.45                  | 1,041.74                          | 7,058.28   | 2,828.44             | 2,738.70              | 89.75                   | 31.516            |                    |         |
| 18,100.00                                     | 8,835.00            | 8,546.45            | 6,798.36            | 192.92          | 37.01       | 0.55                  | 1,038.32                          | 7,058.45   | 2,900.74             | 2,810.93              | 89.81                   | 32.299            |                    |         |
| 18,200.00                                     | 8,835.00            | 8,550.64            | 6,798.20            | 194.94          | 37.06       | 0.67                  | 1,034.14                          | 7,058.66   | 2,974.63             | 2,884.78              | 89.86                   | 33.104            |                    |         |
| 18,300.00                                     | 8,835.00            | 8,557.57            | 6,797.95            | 196.96          | 37.15       | 0.87                  | 1,027.23                          | 7,059.00   | 3,050.01             | 2,960.10              | 89.91                   | 33.923            |                    |         |
| 18,400.00                                     | 8,835.00            | 8,565.05            | 6,797.66            | 198.98          | 37.24       | 1.09                  | 1,019.77                          | 7,059.39   | 3,126.75             | 3,036.80              | 89.95                   | 34.759            |                    |         |
| 18,500.00                                     | 8,835.00            | 8,573.15            | 6,797.35            | 201.00          | 37.33       | 1.32                  | 1,011.68                          | 7,059.83   | 3,204.77             | 3,114.78              | 90.00                   | 35.610            |                    |         |
| 18,600.00                                     | 8,835.00            | 8,581.96            | 6,797.00            | 203.02          | 37.44       | 1.58                  | 1,002.89                          | 7,060.32   | 3,283.97             | 3,193.93              | 90.04                   | 36.473            |                    |         |
| 18,700.00                                     | 8,835.00            | 8,591.57            | 6,796.62            | 205.04          | 37.56       | 1.85                  | 993.30                            | 7,060.87   | 3,364.26             | 3,274.17              | 90.09                   | 37.344            |                    |         |
| 18,800.00                                     | 8,835.00            | 8,602.10            | 6,796.19            | 207.06          | 37.68       | 2.16                  | 982.80                            | 7,061.51   | 3,445.57             | 3,355.42              | 90.15                   | 38.222            |                    |         |
| 18,900.00                                     | 8,835.00            | 8,613.69            | 6,795.70            | 209.08          | 37.82       | 2.49                  | 971.25                            | 7,062.24   | 3,527.82             | 3,437.60              | 90.22                   | 39.102            |                    |         |
| 19,000.00                                     | 8,835.00            | 8,626.49            | 6,795.14            | 211.10          | 37.98       | 2.86                  | 958.48                            | 7,063.08   | 3,610.94             | 3,520.63              | 90.32                   | 39.981            |                    |         |
| 19,100.00                                     | 8,835.00            | 19,100.00           | 6,793.08            | 213.12          | 168.47      | 4.73                  | 893.20                            | 7,067.94   | 3,694.56             | 3,488.19              | 206.37                  | 17.902 SF         |                    |         |
| 19,200.00                                     | 8,835.00            | 8,746.53            | 6,791.76            | 215.15          | 39.45       | 6.28                  | 838.85                            | 7,072.11   | 3,779.37             | 3,687.15              | 92.22                   | 40.983            |                    |         |
| 19,308.27                                     | 8,835.00            | 8,752.44            | 6,791.71            | 217.34          | 39.53       | 6.45                  | 832.95                            | 7,072.58   | 3,871.70             | 3,779.46              | 92.24                   | 41.975            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|---------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 106-MWD+IGRF, 2746-MWD+IGRF |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.00 ft |
| Reference                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                                        | 0.00                | 0.00                | 0.00                | 0.50            | 5.00        | 65.80                 | 2,649.20                          | 5,895.07   | 6,463.22             |                       |                         |                   |                    |         |
| 100.00                                      | 100.00              | 50.31               | 50.31               | 0.52            | 5.00        | 65.80                 | 2,649.04                          | 5,895.12   | 6,462.96             | 6,457.44              | 5.52                    | 1,171.200         |                    |         |
| 200.00                                      | 200.00              | 323.76              | 323.69              | 0.70            | 5.08        | 65.79                 | 2,648.06                          | 5,890.48   | 6,460.82             | 6,455.04              | 5.79                    | 1,116.780         |                    |         |
| 300.00                                      | 300.00              | 390.22              | 390.10              | 0.99            | 5.13        | 65.78                 | 2,648.84                          | 5,888.28   | 6,458.29             | 6,452.17              | 6.12                    | 1,055.771         |                    |         |
| 400.00                                      | 400.00              | 456.47              | 456.33              | 1.31            | 5.19        | 65.77                 | 2,649.33                          | 5,886.64   | 6,456.32             | 6,449.82              | 6.50                    | 993.809           |                    |         |
| 500.00                                      | 500.00              | 538.19              | 538.03              | 1.65            | 5.28        | 65.76                 | 2,649.68                          | 5,885.07   | 6,454.73             | 6,447.82              | 6.92                    | 932.933           |                    |         |
| 600.00                                      | 600.00              | 608.03              | 607.86              | 1.99            | 5.36        | 65.75                 | 2,650.16                          | 5,883.89   | 6,453.49             | 6,446.14              | 7.35                    | 878.303           |                    |         |
| 700.00                                      | 700.00              | 687.44              | 687.26              | 2.34            | 5.47        | 65.74                 | 2,650.92                          | 5,882.88   | 6,452.71             | 6,444.91              | 7.80                    | 826.813           |                    |         |
| 800.00                                      | 800.00              | 790.97              | 790.79              | 2.69            | 5.63        | 65.73                 | 2,651.95                          | 5,881.67   | 6,452.06             | 6,443.75              | 8.31                    | 775.995           |                    |         |
| 900.00                                      | 900.00              | 935.18              | 934.98              | 3.04            | 5.88        | 65.72                 | 2,652.75                          | 5,879.64   | 6,451.00             | 6,442.08              | 8.92                    | 723.103           |                    |         |
| 1,000.00                                    | 1,000.00            | 1,014.95            | 1,014.73            | 3.40            | 6.04        | 65.71                 | 2,653.11                          | 5,878.38   | 6,449.75             | 6,440.32              | 9.43                    | 683.909           |                    |         |
| 1,100.00                                    | 1,100.00            | 1,070.71            | 1,070.49            | 3.75            | 6.15        | 65.70                 | 2,653.45                          | 5,877.76   | 6,449.00             | 6,439.10              | 9.90                    | 651.493           |                    |         |
| 1,166.58                                    | 1,166.58            | 1,111.00            | 1,110.78            | 3.99            | 6.24        | 65.70                 | 2,653.71                          | 5,877.57   | 6,448.88             | 6,438.66              | 10.22                   | 631.031           |                    |         |
| 1,200.00                                    | 1,200.00            | 1,127.60            | 1,127.38            | 4.11            | 6.27        | 65.70                 | 2,653.83                          | 5,877.55   | 6,448.93             | 6,438.56              | 10.37                   | 621.704           |                    |         |
| 1,300.00                                    | 1,300.00            | 1,189.27            | 1,189.04            | 4.46            | 6.40        | 65.70                 | 2,654.43                          | 5,877.66   | 6,449.49             | 6,438.63              | 10.86                   | 593.877           |                    |         |
| 1,400.00                                    | 1,400.00            | 1,259.22            | 1,258.99            | 4.82            | 6.55        | 65.69                 | 2,655.26                          | 5,878.14   | 6,450.60             | 6,439.23              | 11.37                   | 567.439           |                    |         |
| 1,500.00                                    | 1,500.00            | 1,390.59            | 1,390.35            | 5.18            | 6.85        | 65.69                 | 2,656.31                          | 5,879.50   | 6,451.93             | 6,439.91              | 12.02                   | 536.624           |                    |         |
| 1,600.00                                    | 1,600.00            | 1,476.80            | 1,476.55            | 5.53            | 7.06        | 65.69                 | 2,656.62                          | 5,880.23   | 6,452.85             | 6,440.27              | 12.58                   | 512.793           |                    |         |
| 1,700.00                                    | 1,700.00            | 1,594.05            | 1,593.80            | 5.89            | 7.34        | 65.69                 | 2,656.62                          | 5,881.45   | 6,453.81             | 6,440.58              | 13.23                   | 487.922           |                    |         |
| 1,800.00                                    | 1,800.00            | 1,715.24            | 1,714.98            | 6.25            | 7.65        | 65.70                 | 2,656.26                          | 5,882.48   | 6,454.47             | 6,440.57              | 13.89                   | 464.562           |                    |         |
| 1,900.00                                    | 1,900.00            | 1,840.59            | 1,840.33            | 6.61            | 7.98        | 65.70                 | 2,656.35                          | 5,882.75   | 6,454.68             | 6,440.10              | 14.58                   | 442.557           |                    |         |
| 2,000.00                                    | 2,000.00            | 1,927.35            | 1,927.09            | 6.96            | 8.22        | 65.70                 | 2,656.15                          | 5,882.94   | 6,454.79             | 6,439.61              | 15.18                   | 425.248           |                    |         |
| 2,100.00                                    | 2,099.99            | 2,022.00            | 2,021.74            | 7.32            | 8.48        | 78.48                 | 2,656.50                          | 5,883.15   | 6,454.98             | 6,439.18              | 15.80                   | 408.520           |                    |         |
| 2,200.00                                    | 2,199.96            | 2,177.12            | 2,176.85            | 7.68            | 8.93        | 78.52                 | 2,656.98                          | 5,882.87   | 6,454.44             | 6,437.84              | 16.60                   | 388.726           |                    |         |
| 2,300.00                                    | 2,299.86            | 2,280.36            | 2,280.10            | 8.04            | 9.23        | 78.57                 | 2,657.08                          | 5,882.10   | 6,452.92             | 6,435.66              | 17.26                   | 373.819           |                    |         |
| 2,400.00                                    | 2,399.68            | 2,356.04            | 2,355.77            | 8.39            | 9.45        | 78.63                 | 2,656.89                          | 5,881.89   | 6,451.36             | 6,433.52              | 17.84                   | 361.629           |                    |         |
| 2,500.00                                    | 2,499.37            | 2,458.35            | 2,458.08            | 8.75            | 9.76        | 78.71                 | 2,656.80                          | 5,881.82   | 6,449.72             | 6,431.22              | 18.50                   | 348.686           |                    |         |
| 2,600.00                                    | 2,598.90            | 2,563.07            | 2,562.80            | 9.11            | 10.07       | 78.82                 | 2,656.95                          | 5,881.19   | 6,447.34             | 6,428.17              | 19.17                   | 336.334           |                    |         |
| 2,700.00                                    | 2,698.26            | 2,624.53            | 2,624.26            | 9.46            | 10.26       | 78.90                 | 2,657.13                          | 5,881.11   | 6,445.13             | 6,425.42              | 19.71                   | 326.936           |                    |         |
| 2,800.00                                    | 2,797.40            | 2,743.69            | 2,743.42            | 9.82            | 10.45       | 79.06                 | 2,657.23                          | 5,881.26   | 6,442.77             | 6,422.51              | 20.26                   | 317.998           |                    |         |
| 2,900.00                                    | 2,896.30            | 2,808.21            | 2,807.94            | 10.18           | 10.46       | 79.17                 | 2,657.32                          | 5,881.25   | 6,440.06             | 6,419.44              | 20.63                   | 312.184           |                    |         |
| 3,000.00                                    | 2,994.93            | 2,872.00            | 2,871.72            | 10.54           | 10.47       | 79.27                 | 2,658.49                          | 5,881.55   | 6,437.97             | 6,416.97              | 21.00                   | 306.607           |                    |         |
| 3,100.00                                    | 3,093.26            | 2,872.00            | 2,871.72            | 10.90           | 10.47       | 79.29                 | 2,658.49                          | 5,881.55   | 6,436.37             | 6,415.01              | 21.35                   | 301.431           |                    |         |
| 3,195.07                                    | 3,186.42            | 2,934.39            | 2,934.06            | 11.24           | 10.49       | 79.39                 | 2,660.79                          | 5,882.21   | 6,435.29             | 6,413.58              | 21.71                   | 296.396           |                    |         |
| 3,200.00                                    | 3,191.25            | 2,936.52            | 2,936.19            | 11.26           | 10.49       | 79.39                 | 2,660.89                          | 5,882.24   | 6,435.26             | 6,413.53              | 21.73                   | 296.146           |                    |         |
| 3,276.12                                    | 3,265.71            | 2,966.00            | 2,965.63            | 11.53           | 10.50       | 79.44                 | 2,662.37                          | 5,882.69   | 6,434.96             | 6,412.95              | 22.01                   | 292.353           |                    |         |
| 3,300.00                                    | 3,289.08            | 2,966.00            | 2,965.63            | 11.62           | 10.50       | 79.44                 | 2,662.37                          | 5,882.69   | 6,435.00             | 6,412.91              | 22.10                   | 291.240           |                    |         |
| 3,400.00                                    | 3,386.91            | 3,031.44            | 3,030.93            | 11.98           | 10.52       | 79.53                 | 2,666.40                          | 5,883.94   | 6,435.49             | 6,413.01              | 22.48                   | 286.228           |                    |         |
| 3,500.00                                    | 3,484.74            | 3,097.61            | 3,096.89            | 12.35           | 10.55       | 79.61                 | 2,671.32                          | 5,885.47   | 6,436.75             | 6,413.87              | 22.88                   | 281.342           |                    |         |
| 3,600.00                                    | 3,582.58            | 3,191.34            | 3,190.32            | 12.72           | 10.61       | 79.73                 | 2,678.70                          | 5,887.67   | 6,438.29             | 6,414.99              | 23.30                   | 276.293           |                    |         |
| 3,700.00                                    | 3,680.41            | 3,298.83            | 3,297.43            | 13.09           | 10.69       | 79.86                 | 2,687.33                          | 5,890.09   | 6,439.83             | 6,416.08              | 23.75                   | 271.128           |                    |         |
| 3,800.00                                    | 3,778.24            | 3,415.41            | 3,413.64            | 13.46           | 10.79       | 80.01                 | 2,696.29                          | 5,892.61   | 6,441.19             | 6,416.96              | 24.23                   | 265.873           |                    |         |
| 3,900.00                                    | 3,876.08            | 3,474.17            | 3,472.21            | 13.83           | 10.85       | 80.08                 | 2,700.86                          | 5,893.87   | 6,442.66             | 6,418.01              | 24.65                   | 261.349           |                    |         |
| 4,000.00                                    | 3,973.91            | 3,531.00            | 3,528.76            | 14.21           | 10.91       | 80.15                 | 2,706.22                          | 5,895.31   | 6,444.98             | 6,419.91              | 25.08                   | 257.002           |                    |         |
| 4,100.00                                    | 4,071.74            | 3,562.16            | 3,559.74            | 14.58           | 10.95       | 80.18                 | 2,709.51                          | 5,896.24   | 6,448.13             | 6,422.66              | 25.48                   | 253.101           |                    |         |
| 4,200.00                                    | 4,169.57            | 3,625.00            | 3,622.12            | 14.96           | 11.03       | 80.25                 | 2,716.70                          | 5,898.57   | 6,452.30             | 6,426.38              | 25.92                   | 248.944           |                    |         |
| 4,300.00                                    | 4,267.41            | 3,683.97            | 3,680.61            | 15.33           | 11.11       | 80.30                 | 2,723.80                          | 5,900.99   | 6,457.06             | 6,430.69              | 26.36                   | 244.922           |                    |         |
| 4,400.00                                    | 4,365.24            | 3,823.64            | 3,819.13            | 15.71           | 11.32       | 80.43                 | 2,740.86                          | 5,906.12   | 6,461.68             | 6,434.73              | 26.95                   | 239.761           |                    |         |
| 4,500.00                                    | 4,463.07            | 3,946.68            | 3,941.23            | 16.09           | 11.52       | 80.55                 | 2,755.67                          | 5,909.49   | 6,465.28             | 6,437.75              | 27.53                   | 234.824           |                    |         |
| 4,600.00                                    | 4,560.90            | 4,002.00            | 3,996.05            | 16.47           | 11.62       | 80.59                 | 2,762.92                          | 5,911.16   | 6,469.59             | 6,441.59              | 28.00                   | 231.094           |                    |         |
| 4,700.00                                    | 4,658.74            | 4,218.02            | 4,210.24            | 16.85           | 12.05       | 80.77                 | 2,790.56                          | 5,915.52   | 6,472.50             | 6,443.69              | 28.81                   | 224.660           |                    |         |
| 4,800.00                                    | 4,756.57            | 4,258.17            | 4,250.05            | 17.23           | 12.14       | 80.81                 | 2,795.78                          | 5,916.26   | 6,475.77             | 6,446.51              | 29.26                   | 221.309           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|---------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 106-MWD+IGRF, 2746-MWD+IGRF |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.00 ft |
| Reference                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 4,900.00                                    | 4,854.40            | 4,900.00            | 4,343.15            | 17.61           | 13.60       | 80.88                 | 2,808.41                          | 5,918.45   | 6,479.65             | 6,448.62              | 31.03                   | 208.836           |                    |         |
| 5,000.00                                    | 4,952.23            | 4,421.97            | 4,412.34            | 17.99           | 12.51       | 80.94                 | 2,817.61                          | 5,920.09   | 6,483.55             | 6,453.18              | 30.37                   | 213.487           |                    |         |
| 5,100.00                                    | 5,050.07            | 4,472.00            | 4,461.89            | 18.37           | 12.63       | 80.98                 | 2,824.27                          | 5,921.79   | 6,488.32             | 6,457.46              | 30.85                   | 210.308           |                    |         |
| 5,200.00                                    | 5,147.90            | 4,536.74            | 4,526.00            | 18.75           | 12.79       | 81.03                 | 2,832.97                          | 5,924.40   | 6,493.77             | 6,462.39              | 31.38                   | 206.972           |                    |         |
| 5,300.00                                    | 5,245.73            | 5,300.00            | 4,644.39            | 19.14           | 14.76       | 81.14                 | 2,848.74                          | 5,929.18   | 6,499.16             | 6,465.54              | 33.62                   | 193.336           |                    |         |
| 5,400.00                                    | 5,343.56            | 9,608.44            | 7,429.60            | 19.52           | 45.82       | 106.21                | 598.39                            | 5,996.23   | 6,488.48             | 6,426.05              | 62.43                   | 103.935           |                    |         |
| 5,500.00                                    | 5,441.40            | 5,500.00            | 7,428.24            | 19.90           | 24.91       | 105.80                | 643.44                            | 5,996.40   | 6,461.10             | 6,418.26              | 42.84                   | 150.824           |                    |         |
| 5,600.00                                    | 5,539.23            | 9,568.93            | 7,428.51            | 20.29           | 45.14       | 105.85                | 637.89                            | 5,996.41   | 6,435.12             | 6,372.13              | 62.99                   | 102.159           |                    |         |
| 5,700.00                                    | 5,637.06            | 9,524.32            | 7,427.11            | 20.67           | 44.37       | 105.45                | 682.48                            | 5,996.53   | 6,410.48             | 6,347.63              | 62.85                   | 101.989           |                    |         |
| 5,800.00                                    | 5,734.90            | 9,484.77            | 7,425.59            | 21.05           | 43.69       | 105.09                | 722.00                            | 5,996.55   | 6,387.21             | 6,324.42              | 62.79                   | 101.724           |                    |         |
| 5,900.00                                    | 5,832.73            | 9,466.54            | 7,424.86            | 21.44           | 43.38       | 104.92                | 740.22                            | 5,996.53   | 6,365.35             | 6,302.28              | 63.07                   | 100.929           |                    |         |
| 6,000.00                                    | 5,930.56            | 9,447.82            | 7,424.14            | 21.83           | 43.07       | 104.75                | 758.92                            | 5,996.50   | 6,344.94             | 6,281.62              | 63.33                   | 100.193           |                    |         |
| 6,100.00                                    | 6,028.39            | 9,428.59            | 7,423.45            | 22.21           | 42.74       | 104.58                | 778.14                            | 5,996.45   | 6,326.00             | 6,262.43              | 63.57                   | 99.514            |                    |         |
| 6,200.00                                    | 6,126.23            | 9,408.83            | 7,422.79            | 22.60           | 42.40       | 104.40                | 797.89                            | 5,996.37   | 6,308.54             | 6,244.75              | 63.79                   | 98.894            |                    |         |
| 6,300.00                                    | 6,224.06            | 9,387.77            | 7,422.13            | 22.98           | 42.05       | 104.21                | 818.94                            | 5,996.27   | 6,292.56             | 6,228.58              | 63.98                   | 98.350            |                    |         |
| 6,400.00                                    | 6,321.89            | 9,362.84            | 7,421.37            | 23.37           | 41.63       | 103.98                | 843.85                            | 5,996.13   | 6,278.07             | 6,213.97              | 64.10                   | 97.943            |                    |         |
| 6,500.00                                    | 6,419.72            | 9,337.90            | 7,420.61            | 23.76           | 41.21       | 103.76                | 868.79                            | 5,995.95   | 6,265.08             | 6,200.87              | 64.21                   | 97.578            |                    |         |
| 6,600.00                                    | 6,517.56            | 9,313.00            | 7,419.89            | 24.14           | 18.96       | 103.03                | 948.94                            | 5,994.92   | 6,253.47             | 6,228.14              | 25.32                   | 246.948           |                    |         |
| 6,700.00                                    | 6,615.39            | 9,204.00            | 7,415.89            | 24.53           | 38.97       | 102.54                | 1,002.58                          | 5,994.01   | 6,243.46             | 6,180.46              | 63.00                   | 99.099            |                    |         |
| 6,800.00                                    | 6,713.22            | 9,204.00            | 7,415.89            | 24.92           | 38.97       | 102.54                | 1,002.58                          | 5,994.01   | 6,234.81             | 6,171.33              | 63.48                   | 98.211            |                    |         |
| 6,900.00                                    | 6,811.05            | 9,182.33            | 7,415.03            | 25.30           | 38.61       | 102.34                | 1,024.23                          | 5,993.52   | 6,227.68             | 6,164.07              | 63.60                   | 97.915            |                    |         |
| 7,000.00                                    | 6,908.89            | 9,174.05            | 7,414.75            | 25.69           | 38.47       | 102.27                | 1,032.50                          | 5,993.35   | 6,222.15             | 6,158.23              | 63.93                   | 97.333            |                    |         |
| 7,100.00                                    | 7,006.72            | 9,165.44            | 7,414.49            | 26.08           | 38.33       | 102.19                | 1,041.11                          | 5,993.18   | 6,218.21             | 6,153.97              | 64.23                   | 96.807            |                    |         |
| 7,200.00                                    | 7,104.55            | 9,156.49            | 7,414.25            | 26.47           | 38.19       | 102.11                | 1,050.05                          | 5,993.01   | 6,215.85             | 6,151.32              | 64.52                   | 96.338            |                    |         |
| 7,216.87                                    | 7,121.05            | 9,154.95            | 7,414.21            | 26.53           | 38.16       | 102.09                | 1,051.60                          | 5,992.98   | 6,215.60             | 6,151.03              | 64.57                   | 96.264            |                    |         |
| 7,300.00                                    | 7,202.57            | 9,147.63            | 7,414.05            | 26.85           | 38.04       | 102.02                | 1,058.91                          | 5,992.86   | 6,214.88             | 6,150.08              | 64.80                   | 95.914            |                    |         |
| 7,342.30                                    | 7,244.17            | 9,144.17            | 7,413.98            | 27.01           | 37.98       | 101.98                | 1,062.38                          | 5,992.80   | 6,214.78             | 6,149.87              | 64.91                   | 95.742            |                    |         |
| 7,400.00                                    | 7,301.06            | 9,139.73            | 7,413.89            | 27.23           | 37.91       | 101.95                | 1,066.81                          | 5,992.73   | 6,214.96             | 6,149.89              | 65.07                   | 95.512            |                    |         |
| 7,500.00                                    | 7,399.97            | 9,132.87            | 7,413.78            | 27.61           | 37.80       | 101.90                | 1,073.67                          | 5,992.62   | 6,216.09             | 6,150.75              | 65.34                   | 95.132            |                    |         |
| 7,600.00                                    | 7,499.23            | 9,127.12            | 7,413.69            | 27.98           | 37.70       | 101.88                | 1,079.42                          | 5,992.54   | 6,218.28             | 6,152.66              | 65.61                   | 94.772            |                    |         |
| 7,700.00                                    | 7,598.77            | 9,110.00            | 7,413.53            | 28.34           | 37.42       | 101.77                | 1,096.53                          | 5,992.32   | 6,221.55             | 6,155.87              | 65.68                   | 94.724            |                    |         |
| 7,800.00                                    | 7,698.53            | 9,110.00            | 7,413.53            | 28.70           | 37.42       | 101.83                | 1,096.53                          | 5,992.32   | 6,225.85             | 6,159.84              | 66.01                   | 94.320            |                    |         |
| 7,900.00                                    | 7,798.44            | 9,110.00            | 7,413.53            | 29.05           | 37.42       | 101.91                | 1,096.53                          | 5,992.32   | 6,231.21             | 6,164.90              | 66.32                   | 93.963            |                    |         |
| 8,000.00                                    | 7,898.42            | 9,110.00            | 7,413.53            | 29.39           | 37.42       | 102.01                | 1,096.53                          | 5,992.32   | 6,237.64             | 6,171.03              | 66.60                   | 93.652            |                    |         |
| 8,013.58                                    | 7,912.00            | 9,110.00            | 7,413.53            | 29.43           | 37.42       | 89.24                 | 1,096.53                          | 5,992.32   | 6,238.59             | 6,171.95              | 66.64                   | 93.614            |                    |         |
| 8,100.00                                    | 7,998.42            | 9,110.00            | 7,413.53            | 29.73           | 37.42       | 89.24                 | 1,096.53                          | 5,992.32   | 6,245.32             | 6,178.44              | 66.88                   | 93.386            |                    |         |
| 8,200.00                                    | 8,098.42            | 9,110.00            | 7,413.53            | 30.07           | 37.42       | 89.24                 | 1,096.53                          | 5,992.32   | 6,254.58             | 6,187.45              | 67.14                   | 93.163            |                    |         |
| 8,300.00                                    | 8,198.42            | 9,110.00            | 7,413.53            | 30.41           | 37.42       | 89.24                 | 1,096.53                          | 5,992.32   | 6,265.43             | 6,198.05              | 67.38                   | 92.983            |                    |         |
| 8,363.62                                    | 8,262.04            | 9,110.00            | 7,413.53            | 30.62           | 37.42       | 89.24                 | 1,096.53                          | 5,992.32   | 6,273.15             | 6,205.62              | 67.53                   | 92.891            |                    |         |
| 8,400.00                                    | 8,298.40            | 9,119.33            | 7,413.61            | 30.75           | 37.58       | -0.33                 | 1,087.20                          | 5,992.44   | 6,276.70             | 6,208.93              | 67.76                   | 92.628            |                    |         |
| 8,450.00                                    | 8,348.10            | 9,119.69            | 7,413.61            | 30.91           | 37.58       | -0.33                 | 1,086.84                          | 5,992.44   | 6,278.16             | 6,210.29              | 67.87                   | 92.504            |                    |         |
| 8,500.00                                    | 8,397.14            | 9,120.09            | 7,413.61            | 31.07           | 37.59       | -0.32                 | 1,086.45                          | 5,992.45   | 6,275.66             | 6,207.69              | 67.97                   | 92.330            |                    |         |
| 8,550.00                                    | 8,445.15            | 9,120.50            | 7,413.62            | 31.23           | 37.60       | -0.32                 | 1,086.03                          | 5,992.45   | 6,269.22             | 6,201.15              | 68.06                   | 92.109            |                    |         |
| 8,600.00                                    | 8,491.77            | 9,120.94            | 7,413.62            | 31.38           | 37.60       | -0.33                 | 1,085.59                          | 5,992.46   | 6,258.86             | 6,190.71              | 68.15                   | 91.842            |                    |         |
| 8,650.00                                    | 8,536.65            | 9,121.41            | 7,413.63            | 31.52           | 37.61       | -0.33                 | 1,085.13                          | 5,992.46   | 6,244.65             | 6,176.42              | 68.22                   | 91.532            |                    |         |
| 8,700.00                                    | 8,579.43            | 9,121.89            | 7,413.63            | 31.66           | 37.62       | -0.34                 | 1,084.65                          | 5,992.47   | 6,226.67             | 6,158.38              | 68.29                   | 91.181            |                    |         |
| 8,750.00                                    | 8,619.80            | 9,122.38            | 7,413.64            | 31.80           | 37.63       | -0.35                 | 1,084.15                          | 5,992.48   | 6,205.02             | 6,136.68              | 68.34                   | 90.792            |                    |         |
| 8,800.00                                    | 8,657.44            | 9,122.89            | 7,413.64            | 31.93           | 37.63       | -0.36                 | 1,083.64                          | 5,992.48   | 6,179.84             | 6,111.45              | 68.39                   | 90.365            |                    |         |
| 8,850.00                                    | 8,692.08            | 9,123.41            | 7,413.65            | 32.06           | 37.64       | -0.37                 | 1,083.13                          | 5,992.49   | 6,151.27             | 6,082.84              | 68.42                   | 89.903            |                    |         |
| 8,900.00                                    | 8,723.44            | 9,123.92            | 7,413.66            | 32.19           | 37.65       | -0.40                 | 1,082.61                          | 5,992.50   | 6,119.48             | 6,051.03              | 68.44                   | 89.407            |                    |         |
| 8,950.00                                    | 8,751.29            | 9,124.44            | 7,413.66            | 32.34           | 37.66       | -0.42                 | 1,082.10                          | 5,992.50   | 6,084.66             | 6,016.20              | 68.46                   | 88.880            |                    |         |
| 9,000.00                                    | 8,775.42            | 9,124.95            | 7,413.67            | 32.50           | 37.67       | -0.46                 | 1,081.59                          | 5,992.51   | 6,047.04             | 5,978.58              | 68.46                   | 88.324            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|---------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 106-MWD+IGRF, 2746-MWD+IGRF |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.00 ft |
| Reference                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,050.00                                    | 8,795.64            | 9,125.44            | 7,413.67            | 32.67           | 37.68       | -0.51                 | 1,081.10                          | 5,992.52   | 6,006.85             | 5,938.39              | 68.46                   | 87.740            |                    |         |
| 9,100.00                                    | 8,811.80            | 9,125.91            | 7,413.68            | 32.87           | 37.68       | -0.58                 | 1,080.62                          | 5,992.52   | 5,964.34             | 5,895.89              | 68.45                   | 87.129            |                    |         |
| 9,150.00                                    | 8,823.77            | 9,126.36            | 7,413.69            | 33.10           | 37.69       | -0.68                 | 1,080.18                          | 5,992.53   | 5,919.80             | 5,851.36              | 68.44                   | 86.495            |                    |         |
| 9,200.00                                    | 8,831.47            | 9,126.77            | 7,413.69            | 33.34           | 37.70       | -0.83                 | 1,079.76                          | 5,992.54   | 5,873.51             | 5,805.09              | 68.42                   | 85.839            |                    |         |
| 9,250.00                                    | 8,834.84            | 9,127.15            | 7,413.70            | 33.60           | 37.70       | -1.08                 | 1,079.39                          | 5,992.54   | 5,825.80             | 5,757.40              | 68.41                   | 85.164            |                    |         |
| 9,263.62                                    | 8,835.00            | 9,127.24            | 7,413.70            | 33.67           | 37.71       | -1.18                 | 1,079.29                          | 5,992.54   | 5,812.60             | 5,744.20              | 68.40                   | 84.975            |                    |         |
| 9,300.00                                    | 8,835.00            | 9,127.50            | 7,413.70            | 33.88           | 37.71       | -1.17                 | 1,079.04                          | 5,992.55   | 5,777.25             | 5,708.86              | 68.39                   | 84.476            |                    |         |
| 9,400.00                                    | 8,835.00            | 9,128.20            | 7,413.71            | 34.53           | 37.72       | -1.14                 | 1,078.34                          | 5,992.56   | 5,680.13             | 5,611.78              | 68.35                   | 83.107            |                    |         |
| 9,500.00                                    | 8,835.00            | 9,128.91            | 7,413.72            | 35.30           | 37.73       | -1.11                 | 1,077.62                          | 5,992.57   | 5,583.12             | 5,514.81              | 68.30                   | 81.738            |                    |         |
| 9,600.00                                    | 8,835.00            | 9,129.65            | 7,413.73            | 36.17           | 37.75       | -1.08                 | 1,076.89                          | 5,992.58   | 5,486.21             | 5,417.95              | 68.26                   | 80.370            |                    |         |
| 9,700.00                                    | 8,835.00            | 9,130.40            | 7,413.74            | 37.13           | 37.76       | -1.05                 | 1,076.14                          | 5,992.59   | 5,389.41             | 5,321.19              | 68.22                   | 79.002            |                    |         |
| 9,800.00                                    | 8,835.00            | 9,131.17            | 7,413.75            | 38.18           | 37.77       | -1.02                 | 1,075.37                          | 5,992.60   | 5,292.74             | 5,224.56              | 68.18                   | 77.634            |                    |         |
| 9,900.00                                    | 8,835.00            | 9,131.95            | 7,413.76            | 39.31           | 37.78       | -0.99                 | 1,074.58                          | 5,992.61   | 5,196.19             | 5,128.06              | 68.13                   | 76.267            |                    |         |
| 10,000.00                                   | 8,835.00            | 9,132.76            | 7,413.77            | 40.51           | 37.80       | -0.95                 | 1,073.78                          | 5,992.62   | 5,099.77             | 5,031.68              | 68.09                   | 74.901            |                    |         |
| 10,100.00                                   | 8,835.00            | 9,133.58            | 7,413.79            | 41.78           | 37.81       | -0.92                 | 1,072.95                          | 5,992.64   | 5,003.50             | 4,935.45              | 68.04                   | 73.535            |                    |         |
| 10,200.00                                   | 8,835.00            | 9,134.43            | 7,413.80            | 43.10           | 37.82       | -0.88                 | 1,072.11                          | 5,992.65   | 4,907.37             | 4,839.37              | 68.00                   | 72.170            |                    |         |
| 10,300.00                                   | 8,835.00            | 9,135.29            | 7,413.81            | 44.49           | 37.84       | -0.85                 | 1,071.24                          | 5,992.66   | 4,811.40             | 4,743.45              | 67.95                   | 70.807            |                    |         |
| 10,400.00                                   | 8,835.00            | 9,136.18            | 7,413.83            | 45.92           | 37.85       | -0.81                 | 1,070.36                          | 5,992.67   | 4,715.59             | 4,647.69              | 67.90                   | 69.445            |                    |         |
| 10,500.00                                   | 8,835.00            | 9,137.09            | 7,413.84            | 47.39           | 37.87       | -0.77                 | 1,069.45                          | 5,992.69   | 4,619.97             | 4,552.11              | 67.86                   | 68.084            |                    |         |
| 10,600.00                                   | 8,835.00            | 9,138.02            | 7,413.86            | 48.91           | 37.88       | -0.73                 | 1,068.51                          | 5,992.70   | 4,524.53             | 4,456.72              | 67.81                   | 66.724            |                    |         |
| 10,700.00                                   | 8,835.00            | 9,138.98            | 7,413.88            | 50.47           | 37.90       | -0.69                 | 1,067.56                          | 5,992.72   | 4,429.30             | 4,361.54              | 67.76                   | 65.366            |                    |         |
| 10,800.00                                   | 8,835.00            | 9,139.96            | 7,413.90            | 52.06           | 37.91       | -0.65                 | 1,066.58                          | 5,992.73   | 4,334.28             | 4,266.57              | 67.71                   | 64.010            |                    |         |
| 10,900.00                                   | 8,835.00            | 9,140.97            | 7,413.91            | 53.68           | 37.93       | -0.61                 | 1,065.57                          | 5,992.75   | 4,239.49             | 4,171.82              | 67.66                   | 62.657            |                    |         |
| 11,000.00                                   | 8,835.00            | 9,142.01            | 7,413.93            | 55.32           | 37.95       | -0.56                 | 1,064.53                          | 5,992.77   | 4,144.94             | 4,077.33              | 67.61                   | 61.305            |                    |         |
| 11,100.00                                   | 8,835.00            | 9,143.07            | 7,413.95            | 57.00           | 37.97       | -0.52                 | 1,063.47                          | 5,992.78   | 4,050.65             | 3,983.09              | 67.56                   | 59.955            |                    |         |
| 11,200.00                                   | 8,835.00            | 9,144.17            | 7,413.98            | 58.70           | 37.98       | -0.47                 | 1,062.37                          | 5,992.80   | 3,956.65             | 3,889.14              | 67.51                   | 58.609            |                    |         |
| 11,300.00                                   | 8,835.00            | 9,145.29            | 7,414.00            | 60.41           | 38.00       | -0.43                 | 1,061.25                          | 5,992.82   | 3,862.95             | 3,795.49              | 67.46                   | 57.265            |                    |         |
| 11,400.00                                   | 8,835.00            | 9,146.45            | 7,414.02            | 62.15           | 38.02       | -0.38                 | 1,060.09                          | 5,992.84   | 3,769.56             | 3,702.16              | 67.41                   | 55.924            |                    |         |
| 11,500.00                                   | 8,835.00            | 9,147.64            | 7,414.05            | 63.91           | 38.04       | -0.33                 | 1,058.90                          | 5,992.86   | 3,676.53             | 3,609.18              | 67.35                   | 54.586            |                    |         |
| 11,600.00                                   | 8,835.00            | 9,148.87            | 7,414.07            | 65.69           | 38.06       | -0.28                 | 1,057.67                          | 5,992.88   | 3,583.87             | 3,516.57              | 67.30                   | 53.252            |                    |         |
| 11,700.00                                   | 8,835.00            | 9,150.13            | 7,414.10            | 67.47           | 38.08       | -0.22                 | 1,056.41                          | 5,992.90   | 3,491.62             | 3,424.37              | 67.25                   | 51.922            |                    |         |
| 11,800.00                                   | 8,835.00            | 9,151.43            | 7,414.13            | 69.28           | 38.10       | -0.17                 | 1,055.11                          | 5,992.92   | 3,399.80             | 3,332.61              | 67.20                   | 50.596            |                    |         |
| 11,900.00                                   | 8,835.00            | 9,152.78            | 7,414.16            | 71.09           | 38.13       | -0.11                 | 1,053.77                          | 5,992.95   | 3,308.46             | 3,241.32              | 67.14                   | 49.275            |                    |         |
| 12,000.00                                   | 8,835.00            | 9,154.16            | 7,414.19            | 72.92           | 38.15       | -0.05                 | 1,052.38                          | 5,992.97   | 3,217.63             | 3,150.54              | 67.09                   | 47.958            |                    |         |
| 12,100.00                                   | 8,835.00            | 9,155.59            | 7,414.23            | 74.76           | 38.17       | 0.01                  | 1,050.96                          | 5,993.00   | 3,127.37             | 3,060.32              | 67.04                   | 46.647            |                    |         |
| 12,200.00                                   | 8,835.00            | 9,157.06            | 7,414.26            | 76.61           | 38.20       | 0.07                  | 1,049.48                          | 5,993.02   | 3,037.71             | 2,970.71              | 67.00                   | 45.342            |                    |         |
| 12,300.00                                   | 8,835.00            | 9,158.58            | 7,414.30            | 78.47           | 38.22       | 0.13                  | 1,047.96                          | 5,993.05   | 2,948.71             | 2,881.76              | 66.95                   | 44.043            |                    |         |
| 12,400.00                                   | 8,835.00            | 9,160.16            | 7,414.34            | 80.34           | 38.25       | 0.20                  | 1,046.39                          | 5,993.08   | 2,860.44             | 2,793.54              | 66.91                   | 42.752            |                    |         |
| 12,500.00                                   | 8,835.00            | 9,161.78            | 7,414.39            | 82.22           | 38.27       | 0.27                  | 1,044.76                          | 5,993.11   | 2,772.97             | 2,706.10              | 66.87                   | 41.469            |                    |         |
| 12,600.00                                   | 8,835.00            | 9,163.47            | 7,414.43            | 84.11           | 38.30       | 0.34                  | 1,043.08                          | 5,993.14   | 2,686.37             | 2,619.54              | 66.84                   | 40.194            |                    |         |
| 12,700.00                                   | 8,835.00            | 9,165.21            | 7,414.48            | 86.00           | 38.33       | 0.41                  | 1,041.34                          | 5,993.17   | 2,600.74             | 2,533.93              | 66.81                   | 38.929            |                    |         |
| 12,800.00                                   | 8,835.00            | 9,167.01            | 7,414.53            | 87.90           | 38.36       | 0.48                  | 1,039.54                          | 5,993.21   | 2,516.16             | 2,449.37              | 66.79                   | 37.675            |                    |         |
| 12,900.00                                   | 8,835.00            | 9,168.89            | 7,414.59            | 89.81           | 38.39       | 0.56                  | 1,037.67                          | 5,993.24   | 2,432.75             | 2,365.98              | 66.77                   | 36.433            |                    |         |
| 13,000.00                                   | 8,835.00            | 9,170.83            | 7,414.65            | 91.72           | 38.42       | 0.64                  | 1,035.73                          | 5,993.28   | 2,350.63             | 2,283.86              | 66.77                   | 35.205            |                    |         |
| 13,100.00                                   | 8,835.00            | 9,172.84            | 7,414.71            | 93.64           | 38.45       | 0.73                  | 1,033.72                          | 5,993.32   | 2,269.95             | 2,203.18              | 66.78                   | 33.993            |                    |         |
| 13,200.00                                   | 8,835.00            | 9,174.93            | 7,414.78            | 95.56           | 38.49       | 0.82                  | 1,031.63                          | 5,993.36   | 2,190.86             | 2,124.07              | 66.80                   | 32.799            |                    |         |
| 13,300.00                                   | 8,835.00            | 9,177.10            | 7,414.85            | 97.49           | 38.53       | 0.91                  | 1,029.45                          | 5,993.41   | 2,113.55             | 2,046.72              | 66.83                   | 31.626            |                    |         |
| 13,400.00                                   | 8,835.00            | 9,179.36            | 7,414.92            | 99.42           | 38.56       | 1.00                  | 1,027.20                          | 5,993.45   | 2,038.20             | 1,971.32              | 66.88                   | 30.477            |                    |         |
| 13,500.00                                   | 8,835.00            | 9,181.72            | 7,415.01            | 101.36          | 38.60       | 1.10                  | 1,024.84                          | 5,993.50   | 1,965.06             | 1,898.11              | 66.94                   | 29.355            |                    |         |
| 13,600.00                                   | 8,835.00            | 9,184.17            | 7,415.09            | 103.30          | 38.64       | 1.20                  | 1,022.40                          | 5,993.56   | 1,894.36             | 1,827.34              | 67.02                   | 28.265            |                    |         |
| 13,700.00                                   | 8,835.00            | 9,186.72            | 7,415.19            | 105.25          | 38.68       | 1.31                  | 1,019.84                          | 5,993.61   | 1,826.41             | 1,759.29              | 67.12                   | 27.211            |                    |         |
| 13,800.00                                   | 8,835.00            | 9,189.39            | 7,415.29            | 107.20          | 38.73       | 1.42                  | 1,017.18                          | 5,993.67   | 1,761.52             | 1,694.28              | 67.24                   | 26.199            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDCS Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|---------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 106-MWD+IGRF, 2746-MWD+IGRF |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.00 ft |
| Reference                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 13,900.00                                   | 8,835.00            | 9,192.18            | 7,415.39            | 109.15          | 38.77       | 1.54                  | 1,014.39                          | 5,993.73   | 1,700.03             | 1,632.66              | 67.37                   | 25.234            |                    |         |
| 14,000.00                                   | 8,835.00            | 9,195.09            | 7,415.51            | 111.10          | 38.82       | 1.66                  | 1,011.48                          | 5,993.80   | 1,642.32             | 1,574.80              | 67.52                   | 24.323            |                    |         |
| 14,100.00                                   | 8,835.00            | 9,198.14            | 7,415.63            | 113.06          | 38.87       | 1.79                  | 1,008.44                          | 5,993.87   | 1,588.82             | 1,521.13              | 67.69                   | 23.473            |                    |         |
| 14,200.00                                   | 8,835.00            | 9,201.34            | 7,415.77            | 115.03          | 38.92       | 1.93                  | 1,005.24                          | 5,993.94   | 1,539.96             | 1,472.08              | 67.88                   | 22.688            |                    |         |
| 14,300.00                                   | 8,835.00            | 9,204.69            | 7,415.92            | 116.99          | 38.98       | 2.07                  | 1,001.90                          | 5,994.02   | 1,496.19             | 1,428.10              | 68.09                   | 21.974            |                    |         |
| 14,400.00                                   | 8,835.00            | 9,208.21            | 7,416.07            | 118.96          | 39.04       | 2.21                  | 998.38                            | 5,994.11   | 1,457.97             | 1,389.63              | 68.34                   | 21.334            |                    |         |
| 14,500.00                                   | 8,835.00            | 9,211.91            | 7,416.25            | 120.93          | 39.10       | 2.37                  | 994.69                            | 5,994.20   | 1,425.74             | 1,357.10              | 68.64                   | 20.770            |                    |         |
| 14,600.00                                   | 8,835.00            | 9,215.81            | 7,416.43            | 122.90          | 39.16       | 2.53                  | 990.80                            | 5,994.30   | 1,399.93             | 1,330.90              | 69.03                   | 20.280            |                    |         |
| 14,700.00                                   | 8,835.00            | 9,219.91            | 7,416.64            | 124.88          | 39.23       | 2.71                  | 986.69                            | 5,994.41   | 1,380.89             | 1,311.36              | 69.53                   | 19.861            |                    |         |
| 14,800.00                                   | 8,835.00            | 9,224.00            | 7,416.86            | 126.86          | 39.30       | 2.89                  | 982.30                            | 5,994.52   | 1,368.88             | 1,293.30              | 70.12                   | 19.466            |                    |         |
| 14,900.00                                   | 8,835.00            | 9,228.14            | 7,417.07            | 128.84          | 39.37       | 3.07                  | 977.69                            | 5,994.63   | 1,364.18             | 1,275.93              | 70.81                   | 19.084            |                    |         |
| 14,914.32                                   | 8,835.00            | 14,914.32           | 7,415.53            | 129.12          | 133.37      | 1.44                  | 1,016.92                          | 5,993.75   | 1,364.10             | 1,257.65              | 106.45                  | 12.815 CC, ES     |                    |         |
| 15,000.00                                   | 8,835.00            | 15,000.00           | 7,415.55            | 130.82          | 134.79      | 1.48                  | 1,015.90                          | 5,993.77   | 1,366.79             | 1,258.60              | 108.19                  | 12.634 SF         |                    |         |
| 15,100.00                                   | 8,835.00            | 9,216.14            | 7,416.41            | 132.80          | 39.17       | 2.55                  | 990.46                            | 5,994.29   | 1,376.67             | 1,303.73              | 72.94                   | 18.875            |                    |         |
| 15,200.00                                   | 8,835.00            | 9,217.45            | 7,416.46            | 134.79          | 39.19       | 2.60                  | 989.15                            | 5,994.32   | 1,393.65             | 1,319.53              | 74.12                   | 18.802            |                    |         |
| 15,300.00                                   | 8,835.00            | 9,218.73            | 7,416.52            | 136.78          | 39.21       | 2.66                  | 987.87                            | 5,994.35   | 1,417.51             | 1,342.16              | 75.34                   | 18.814            |                    |         |
| 15,400.00                                   | 8,835.00            | 9,219.98            | 7,416.57            | 138.76          | 39.23       | 2.71                  | 986.62                            | 5,994.37   | 1,447.89             | 1,371.34              | 76.54                   | 18.916            |                    |         |
| 15,500.00                                   | 8,835.00            | 9,221.21            | 7,416.62            | 140.76          | 39.25       | 2.76                  | 985.40                            | 5,994.40   | 1,484.39             | 1,406.72              | 77.67                   | 19.111            |                    |         |
| 15,600.00                                   | 8,835.00            | 9,222.40            | 7,416.67            | 142.75          | 39.27       | 2.81                  | 984.21                            | 5,994.43   | 1,526.59             | 1,447.88              | 78.70                   | 19.397            |                    |         |
| 15,700.00                                   | 8,835.00            | 9,223.56            | 7,416.72            | 144.74          | 39.29       | 2.86                  | 983.04                            | 5,994.45   | 1,574.01             | 1,494.39              | 79.61                   | 19.771            |                    |         |
| 15,800.00                                   | 8,835.00            | 9,224.70            | 7,416.76            | 146.74          | 39.31       | 2.91                  | 981.91                            | 5,994.47   | 1,626.20             | 1,545.80              | 80.40                   | 20.226            |                    |         |
| 15,900.00                                   | 8,835.00            | 9,225.81            | 7,416.81            | 148.73          | 39.33       | 2.95                  | 980.80                            | 5,994.50   | 1,682.73             | 1,601.65              | 81.07                   | 20.755            |                    |         |
| 16,000.00                                   | 8,835.00            | 9,226.90            | 7,416.85            | 150.73          | 39.35       | 3.00                  | 979.71                            | 5,994.52   | 1,743.16             | 1,661.52              | 81.63                   | 21.354            |                    |         |
| 16,100.00                                   | 8,835.00            | 9,227.96            | 7,416.90            | 152.73          | 39.37       | 3.04                  | 978.65                            | 5,994.54   | 1,807.10             | 1,725.01              | 82.09                   | 22.013            |                    |         |
| 16,200.00                                   | 8,835.00            | 9,229.00            | 7,416.94            | 154.73          | 39.38       | 3.09                  | 977.61                            | 5,994.56   | 1,874.20             | 1,791.74              | 82.46                   | 22.728            |                    |         |
| 16,300.00                                   | 8,835.00            | 9,230.02            | 7,416.98            | 156.73          | 39.40       | 3.13                  | 976.59                            | 5,994.58   | 1,944.14             | 1,861.38              | 82.76                   | 23.491            |                    |         |
| 16,400.00                                   | 8,835.00            | 9,231.02            | 7,417.02            | 158.74          | 39.42       | 3.17                  | 975.60                            | 5,994.60   | 2,016.60             | 1,933.61              | 82.99                   | 24.299            |                    |         |
| 16,500.00                                   | 8,835.00            | 9,231.99            | 7,417.06            | 160.74          | 39.43       | 3.21                  | 974.62                            | 5,994.62   | 2,091.34             | 2,008.17              | 83.17                   | 25.145            |                    |         |
| 16,600.00                                   | 8,835.00            | 9,232.95            | 7,417.10            | 162.74          | 39.45       | 3.25                  | 973.67                            | 5,994.64   | 2,168.11             | 2,084.81              | 83.30                   | 26.027            |                    |         |
| 16,700.00                                   | 8,835.00            | 9,233.88            | 7,417.14            | 164.75          | 39.47       | 3.29                  | 972.74                            | 5,994.66   | 2,246.71             | 2,163.31              | 83.40                   | 26.938            |                    |         |
| 16,800.00                                   | 8,835.00            | 9,234.80            | 7,417.17            | 166.76          | 39.48       | 3.33                  | 971.82                            | 5,994.68   | 2,326.96             | 2,243.48              | 83.47                   | 27.878            |                    |         |
| 16,900.00                                   | 8,835.00            | 9,235.69            | 7,417.21            | 168.77          | 39.50       | 3.37                  | 970.93                            | 5,994.69   | 2,408.68             | 2,325.16              | 83.52                   | 28.841            |                    |         |
| 17,000.00                                   | 8,835.00            | 9,236.57            | 7,417.24            | 170.77          | 39.51       | 3.41                  | 970.05                            | 5,994.71   | 2,491.73             | 2,408.19              | 83.54                   | 29.826            |                    |         |
| 17,100.00                                   | 8,835.00            | 9,237.43            | 7,417.28            | 172.78          | 39.52       | 3.44                  | 969.19                            | 5,994.73   | 2,575.99             | 2,492.44              | 83.55                   | 30.830            |                    |         |
| 17,200.00                                   | 8,835.00            | 9,238.28            | 7,417.31            | 174.79          | 39.54       | 3.48                  | 968.34                            | 5,994.74   | 2,661.34             | 2,577.78              | 83.55                   | 31.851            |                    |         |
| 17,300.00                                   | 8,835.00            | 9,239.11            | 7,417.34            | 176.81          | 39.55       | 3.51                  | 967.52                            | 5,994.76   | 2,747.67             | 2,664.13              | 83.55                   | 32.888            |                    |         |
| 17,400.00                                   | 8,835.00            | 9,239.92            | 7,417.37            | 178.82          | 39.57       | 3.55                  | 966.71                            | 5,994.77   | 2,834.91             | 2,751.38              | 83.53                   | 33.938            |                    |         |
| 17,500.00                                   | 8,835.00            | 9,240.71            | 7,417.40            | 180.83          | 39.58       | 3.58                  | 965.91                            | 5,994.79   | 2,922.96             | 2,839.45              | 83.51                   | 35.000            |                    |         |
| 17,600.00                                   | 8,835.00            | 9,241.49            | 7,417.43            | 182.84          | 39.59       | 3.61                  | 965.13                            | 5,994.80   | 3,011.76             | 2,928.27              | 83.49                   | 36.072            |                    |         |
| 17,700.00                                   | 8,835.00            | 9,242.26            | 7,417.46            | 184.86          | 39.60       | 3.64                  | 964.36                            | 5,994.82   | 3,101.24             | 3,017.77              | 83.47                   | 37.154            |                    |         |
| 17,800.00                                   | 8,835.00            | 9,243.01            | 7,417.49            | 186.87          | 39.62       | 3.68                  | 963.61                            | 5,994.83   | 3,191.34             | 3,107.90              | 83.45                   | 38.244            |                    |         |
| 17,900.00                                   | 8,835.00            | 9,243.75            | 7,417.52            | 188.89          | 39.63       | 3.71                  | 962.88                            | 5,994.84   | 3,282.02             | 3,198.60              | 83.42                   | 39.342            |                    |         |
| 18,000.00                                   | 8,835.00            | 9,244.48            | 7,417.55            | 190.91          | 39.64       | 3.74                  | 962.15                            | 5,994.86   | 3,373.22             | 3,289.82              | 83.40                   | 40.446            |                    |         |
| 18,100.00                                   | 8,835.00            | 9,245.19            | 7,417.58            | 192.92          | 39.65       | 3.77                  | 961.44                            | 5,994.87   | 3,464.91             | 3,381.53              | 83.38                   | 41.557            |                    |         |
| 18,200.00                                   | 8,835.00            | 9,245.89            | 7,417.60            | 194.94          | 39.67       | 3.80                  | 960.74                            | 5,994.88   | 3,557.05             | 3,473.69              | 83.36                   | 42.672            |                    |         |
| 18,300.00                                   | 8,835.00            | 9,246.57            | 7,417.63            | 196.96          | 39.68       | 3.83                  | 960.06                            | 5,994.89   | 3,649.60             | 3,566.26              | 83.34                   | 43.791            |                    |         |
| 18,400.00                                   | 8,835.00            | 9,247.25            | 7,417.65            | 198.98          | 39.69       | 3.85                  | 959.38                            | 5,994.91   | 3,742.53             | 3,659.21              | 83.32                   | 44.915            |                    |         |
| 18,500.00                                   | 8,835.00            | 9,247.91            | 7,417.68            | 201.00          | 39.70       | 3.88                  | 958.72                            | 5,994.92   | 3,835.82             | 3,752.51              | 83.31                   | 46.042            |                    |         |
| 18,600.00                                   | 8,835.00            | 9,248.56            | 7,417.70            | 203.02          | 39.71       | 3.91                  | 958.07                            | 5,994.93   | 3,929.44             | 3,846.14              | 83.30                   | 47.171            |                    |         |
| 18,700.00                                   | 8,835.00            | 9,249.20            | 7,417.73            | 205.04          | 39.72       | 3.94                  | 957.43                            | 5,994.94   | 4,023.36             | 3,940.07              | 83.29                   | 48.304            |                    |         |
| 18,800.00                                   | 8,835.00            | 9,249.83            | 7,417.75            | 207.06          | 39.73       | 3.96                  | 956.80                            | 5,994.95   | 4,117.57             | 4,034.29              | 83.29                   | 49.438            |                    |         |
| 18,900.00                                   | 8,835.00            | 9,250.45            | 7,417.77            | 209.08          | 39.74       | 3.99                  | 956.18                            | 5,994.96   | 4,212.05             | 4,128.77              | 83.29                   | 50.574            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw 13 State 15H - Original Hole - Actuals |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Site Error:</b> | 5.00 ft |
|-----------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|-----------------------------------------|---------------|-------------------------|--------------------------|----------------------------|---------------------------|---------|
| Survey Program: 106-MWD+IGRF, 2746-MWD+IGRF                                                   |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Well Error:</b> | 0.00 ft |
| Reference                                                                                     |                        | Offset                 |                        | Semi Major Axis   |                |                          | Distance                                |               |                         |                          |                            |                           | Warning |
| Measured Depth<br>(ft)                                                                        | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between Centres<br>(ft) | Between Ellipses<br>(ft) | Minimum Separation<br>(ft) | Separation Factor         |         |
| 19,000.00                                                                                     | 8,835.00               | 9,251.06               | 7,417.80               | 211.10            | 39.75          | 4.01                     | 955.58                                  | 5,994.97      | 4,306.78                | 4,223.49                 | 83.29                      | 51.711                    |         |
| 19,100.00                                                                                     | 8,835.00               | 9,251.65               | 7,417.82               | 213.12            | 39.76          | 4.04                     | 954.98                                  | 5,994.98      | 4,401.74                | 4,318.45                 | 83.29                      | 52.849                    |         |
| 19,200.00                                                                                     | 8,835.00               | 9,252.24               | 7,417.84               | 215.15            | 39.77          | 4.06                     | 954.39                                  | 5,994.99      | 4,496.92                | 4,413.62                 | 83.29                      | 53.989                    |         |
| 19,308.27                                                                                     | 8,835.00               | 9,252.87               | 7,417.86               | 217.34            | 39.78          | 4.09                     | 953.77                                  | 5,995.00      | 4,600.20                | 4,516.90                 | 83.30                      | 55.222                    |         |



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 18-GYRO-NS-CT |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                          | 0.00                | 0.00                | 0.00                | 0.50            | 5.02        | 61.82                 | 3,098.47                          | 5,783.09   | 6,561.16             |                       |                         |                   |                    |         |
| 100.00                        | 100.00              | 9.67                | 9.67                | 0.52            | 5.02        | 61.82                 | 3,098.48                          | 5,783.10   | 6,560.91             | 6,555.37              | 5.54                    | 1,183.697         |                    |         |
| 200.00                        | 200.00              | 83.56               | 83.56               | 0.70            | 5.03        | 61.82                 | 3,098.88                          | 5,783.50   | 6,561.60             | 6,555.87              | 5.73                    | 1,145.501         |                    |         |
| 300.00                        | 300.00              | 189.18              | 189.17              | 0.99            | 5.04        | 61.82                 | 3,099.08                          | 5,784.32   | 6,562.37             | 6,556.35              | 6.03                    | 1,088.339         |                    |         |
| 400.00                        | 400.00              | 288.98              | 288.98              | 1.31            | 5.08        | 61.82                 | 3,098.99                          | 5,785.15   | 6,563.07             | 6,556.67              | 6.39                    | 1,026.684         |                    |         |
| 500.00                        | 500.00              | 386.93              | 386.92              | 1.65            | 5.15        | 61.83                 | 3,099.00                          | 5,785.95   | 6,563.79             | 6,556.99              | 6.79                    | 966.316           |                    |         |
| 600.00                        | 600.00              | 491.69              | 491.68              | 1.99            | 5.24        | 61.83                 | 3,098.98                          | 5,786.79   | 6,564.49             | 6,557.26              | 7.23                    | 908.113           |                    |         |
| 700.00                        | 700.00              | 596.24              | 596.22              | 2.34            | 5.35        | 61.83                 | 3,098.78                          | 5,787.62   | 6,565.10             | 6,557.41              | 7.69                    | 853.455           |                    |         |
| 800.00                        | 800.00              | 740.90              | 740.88              | 2.69            | 5.55        | 61.83                 | 3,099.49                          | 5,788.04   | 6,565.69             | 6,557.45              | 8.24                    | 796.975           |                    |         |
| 900.00                        | 900.00              | 883.72              | 883.69              | 3.04            | 5.78        | 61.83                 | 3,099.34                          | 5,787.08   | 6,564.95             | 6,556.13              | 8.82                    | 744.428           |                    |         |
| 1,000.00                      | 1,000.00            | 953.30              | 953.27              | 3.40            | 5.90        | 61.83                 | 3,098.70                          | 5,787.16   | 6,564.56             | 6,555.26              | 9.30                    | 706.144           |                    |         |
| 1,018.08                      | 1,018.08            | 953.30              | 953.27              | 3.46            | 5.90        | 61.83                 | 3,098.70                          | 5,787.16   | 6,564.53             | 6,555.17              | 9.36                    | 701.299           |                    |         |
| 1,100.00                      | 1,100.00            | 1,029.12            | 1,029.09            | 3.75            | 6.04        | 61.84                 | 3,098.01                          | 5,787.59   | 6,564.59             | 6,554.80              | 9.79                    | 670.234           |                    |         |
| 1,200.00                      | 1,200.00            | 1,129.89            | 1,129.85            | 4.11            | 6.24        | 61.85                 | 3,097.46                          | 5,787.99   | 6,564.69             | 6,554.33              | 10.35                   | 634.124           |                    |         |
| 1,300.00                      | 1,300.00            | 1,225.37            | 1,225.33            | 4.46            | 6.45        | 61.85                 | 3,097.19                          | 5,788.25   | 6,564.80             | 6,553.88              | 10.91                   | 601.617           |                    |         |
| 1,400.00                      | 1,400.00            | 1,321.64            | 1,321.60            | 4.82            | 6.67        | 61.85                 | 3,097.00                          | 5,788.55   | 6,564.98             | 6,553.49              | 11.48                   | 571.652           |                    |         |
| 1,500.00                      | 1,500.00            | 1,420.59            | 1,420.55            | 5.18            | 6.90        | 61.86                 | 3,096.78                          | 5,788.91   | 6,565.19             | 6,553.12              | 12.07                   | 543.792           |                    |         |
| 1,600.00                      | 1,600.00            | 1,527.00            | 1,526.96            | 5.53            | 7.16        | 61.86                 | 3,096.33                          | 5,789.37   | 6,565.38             | 6,552.69              | 12.69                   | 517.379           |                    |         |
| 1,700.00                      | 1,700.00            | 1,645.52            | 1,645.48            | 5.89            | 7.46        | 61.87                 | 3,095.68                          | 5,789.69   | 6,565.35             | 6,552.01              | 13.35                   | 491.901           |                    |         |
| 1,800.00                      | 1,800.00            | 1,761.51            | 1,761.46            | 6.25            | 7.76        | 61.87                 | 3,095.09                          | 5,789.65   | 6,565.08             | 6,551.07              | 14.01                   | 468.690           |                    |         |
| 1,900.00                      | 1,900.00            | 1,861.65            | 1,861.60            | 6.61            | 8.03        | 61.87                 | 3,094.84                          | 5,789.28   | 6,564.64             | 6,550.01              | 14.63                   | 448.605           |                    |         |
| 2,000.00                      | 2,000.00            | 1,961.72            | 1,961.67            | 6.96            | 8.31        | 61.87                 | 3,094.89                          | 5,788.82   | 6,564.25             | 6,548.99              | 15.27                   | 430.001           |                    |         |
| 2,100.00                      | 2,099.99            | 2,066.48            | 2,066.43            | 7.32            | 8.60        | 74.66                 | 3,094.99                          | 5,788.24   | 6,563.59             | 6,547.67              | 15.92                   | 412.381           |                    |         |
| 2,200.00                      | 2,199.96            | 2,172.84            | 2,172.79            | 7.68            | 8.90        | 74.69                 | 3,095.11                          | 5,787.55   | 6,562.37             | 6,545.79              | 16.58                   | 395.883           |                    |         |
| 2,300.00                      | 2,299.86            | 2,273.33            | 2,273.27            | 8.04            | 9.19        | 74.74                 | 3,095.32                          | 5,786.77   | 6,560.64             | 6,543.41              | 17.22                   | 380.888           |                    |         |
| 2,400.00                      | 2,399.68            | 2,366.26            | 2,366.20            | 8.39            | 9.47        | 74.80                 | 3,095.58                          | 5,786.07   | 6,558.50             | 6,540.64              | 17.85                   | 367.337           |                    |         |
| 2,500.00                      | 2,499.37            | 2,455.94            | 2,455.87            | 8.75            | 9.73        | 74.88                 | 3,095.88                          | 5,785.51   | 6,556.04             | 6,537.57              | 18.48                   | 354.820           |                    |         |
| 2,600.00                      | 2,598.90            | 2,563.11            | 2,563.05            | 9.11            | 10.06       | 74.99                 | 3,096.11                          | 5,784.92   | 6,553.15             | 6,533.99              | 19.16                   | 342.103           |                    |         |
| 2,700.00                      | 2,698.26            | 2,664.76            | 2,664.70            | 9.46            | 10.37       | 75.12                 | 3,096.11                          | 5,784.39   | 6,549.75             | 6,529.93              | 19.82                   | 330.451           |                    |         |
| 2,800.00                      | 2,797.40            | 2,764.23            | 2,764.16            | 9.82            | 10.67       | 75.26                 | 3,096.22                          | 5,783.77   | 6,545.89             | 6,525.41              | 20.48                   | 319.582           |                    |         |
| 2,900.00                      | 2,896.30            | 2,874.75            | 2,874.68            | 10.18           | 11.01       | 75.44                 | 3,096.65                          | 5,782.94   | 6,541.63             | 6,520.44              | 21.18                   | 308.825           |                    |         |
| 3,000.00                      | 2,994.93            | 3,020.25            | 3,020.17            | 10.54           | 11.47       | 75.69                 | 3,096.73                          | 5,781.23   | 6,536.43             | 6,514.43              | 21.99                   | 297.191           |                    |         |
| 3,100.00                      | 3,093.26            | 3,099.97            | 3,099.88            | 10.90           | 11.72       | 75.86                 | 3,096.46                          | 5,780.29   | 6,530.66             | 6,508.05              | 22.61                   | 288.895           |                    |         |
| 3,195.07                      | 3,186.42            | 3,176.08            | 3,175.99            | 11.24           | 11.96       | 76.05                 | 3,096.11                          | 5,779.64   | 6,525.04             | 6,501.85              | 23.19                   | 281.366           |                    |         |
| 3,200.00                      | 3,191.25            | 3,180.01            | 3,179.92            | 11.26           | 11.97       | 76.06                 | 3,096.10                          | 5,779.62   | 6,524.75             | 6,501.53              | 23.22                   | 280.985           |                    |         |
| 3,300.00                      | 3,289.08            | 3,256.76            | 3,256.67            | 11.62           | 12.22       | 76.19                 | 3,095.94                          | 5,779.12   | 6,519.01             | 6,495.18              | 23.83                   | 273.575           |                    |         |
| 3,400.00                      | 3,386.91            | 3,319.33            | 3,319.23            | 11.98           | 12.42       | 76.30                 | 3,096.28                          | 5,778.74   | 6,513.70             | 6,489.31              | 24.39                   | 267.015           |                    |         |
| 3,500.00                      | 3,484.74            | 3,385.60            | 3,385.50            | 12.35           | 12.63       | 76.41                 | 3,096.85                          | 5,778.83   | 6,509.16             | 6,484.18              | 24.97                   | 260.641           |                    |         |
| 3,600.00                      | 3,582.58            | 3,471.50            | 3,471.39            | 12.72           | 12.90       | 76.56                 | 3,097.55                          | 5,779.30   | 6,505.04             | 6,479.43              | 25.62                   | 253.931           |                    |         |
| 3,700.00                      | 3,680.41            | 3,592.98            | 3,592.87            | 13.09           | 13.29       | 76.77                 | 3,098.07                          | 5,779.73   | 6,500.68             | 6,474.30              | 26.38                   | 246.440           |                    |         |
| 3,800.00                      | 3,778.24            | 3,693.37            | 3,693.26            | 13.46           | 13.62       | 76.95                 | 3,098.31                          | 5,779.98   | 6,496.21             | 6,469.14              | 27.07                   | 239.940           |                    |         |
| 3,900.00                      | 3,876.08            | 3,794.56            | 3,794.45            | 13.83           | 13.95       | 77.13                 | 3,098.50                          | 5,780.21   | 6,491.77             | 6,463.99              | 27.78                   | 233.723           |                    |         |
| 4,000.00                      | 3,973.91            | 3,900.92            | 3,900.81            | 14.21           | 14.30       | 77.32                 | 3,098.79                          | 5,780.32   | 6,487.30             | 6,458.80              | 28.50                   | 227.659           |                    |         |
| 4,100.00                      | 4,071.74            | 4,005.16            | 4,005.05            | 14.58           | 14.64       | 77.50                 | 3,099.10                          | 5,780.24   | 6,482.75             | 6,453.54              | 29.21                   | 221.925           |                    |         |
| 4,200.00                      | 4,169.57            | 4,107.60            | 4,107.49            | 14.96           | 14.97       | 77.68                 | 3,099.46                          | 5,780.07   | 6,478.21             | 6,448.29              | 29.92                   | 216.493           |                    |         |
| 4,300.00                      | 4,267.41            | 4,211.13            | 4,211.02            | 15.33           | 15.31       | 77.86                 | 3,099.84                          | 5,779.79   | 6,473.64             | 6,443.00              | 30.64                   | 211.276           |                    |         |
| 4,400.00                      | 4,365.24            | 4,316.71            | 4,316.61            | 15.71           | 15.66       | 78.05                 | 3,100.17                          | 5,779.41   | 6,469.04             | 6,437.67              | 31.37                   | 206.240           |                    |         |
| 4,500.00                      | 4,463.07            | 4,442.93            | 4,442.82            | 16.09           | 16.08       | 78.27                 | 3,100.34                          | 5,778.68   | 6,464.22             | 6,432.06              | 32.16                   | 200.995           |                    |         |
| 4,600.00                      | 4,560.90            | 4,555.46            | 4,555.34            | 16.47           | 16.45       | 78.47                 | 3,100.09                          | 5,777.76   | 6,459.10             | 6,426.19              | 32.91                   | 196.250           |                    |         |
| 4,700.00                      | 4,658.74            | 4,652.44            | 4,652.32            | 16.85           | 16.78       | 78.64                 | 3,100.04                          | 5,776.79   | 6,453.96             | 6,420.35              | 33.62                   | 191.996           |                    |         |
| 4,800.00                      | 4,756.57            | 4,742.67            | 4,742.54            | 17.23           | 17.08       | 78.80                 | 3,100.29                          | 5,775.83   | 6,448.95             | 6,414.65              | 34.30                   | 188.033           |                    |         |
| 4,900.00                      | 4,854.40            | 4,830.31            | 4,830.18            | 17.61           | 17.37       | 78.95                 | 3,100.65                          | 5,774.98   | 6,444.15             | 6,409.18              | 34.97                   | 184.269           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 18-GYRO-NS-CT |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,000.00                      | 4,952.23            | 4,906.56            | 4,906.43            | 17.99           | 17.63       | 79.09                 | 3,101.02                          | 5,774.38   | 6,439.60             | 6,403.99              | 35.61                   | 180.840           |                    |         |
| 5,100.00                      | 5,050.07            | 4,975.95            | 4,975.82            | 18.37           | 17.86       | 79.21                 | 3,101.44                          | 5,774.23   | 6,435.63             | 6,399.40              | 36.22                   | 177.657           |                    |         |
| 5,200.00                      | 5,147.90            | 5,058.30            | 5,058.16            | 18.75           | 18.14       | 79.36                 | 3,101.77                          | 5,774.44   | 6,432.07             | 6,395.18              | 36.88                   | 174.389           |                    |         |
| 5,300.00                      | 5,245.73            | 5,142.83            | 5,142.69            | 19.14           | 18.42       | 79.51                 | 3,101.78                          | 5,774.87   | 6,428.68             | 6,391.13              | 37.55                   | 171.203           |                    |         |
| 5,400.00                      | 5,343.56            | 5,230.53            | 5,230.39            | 19.52           | 18.71       | 79.67                 | 3,101.64                          | 5,775.59   | 6,425.56             | 6,387.33              | 38.23                   | 168.085           |                    |         |
| 5,500.00                      | 5,441.40            | 5,322.97            | 5,322.82            | 19.90           | 19.03       | 79.85                 | 3,101.46                          | 5,776.47   | 6,422.62             | 6,383.69              | 38.92                   | 165.011           |                    |         |
| 5,600.00                      | 5,539.23            | 5,449.90            | 5,449.76            | 20.29           | 19.45       | 80.08                 | 3,101.93                          | 5,777.19   | 6,419.63             | 6,379.89              | 39.73                   | 161.568           |                    |         |
| 5,700.00                      | 5,637.06            | 5,572.34            | 5,572.19            | 20.67           | 19.87       | 80.29                 | 3,102.58                          | 5,777.19   | 6,416.23             | 6,375.70              | 40.53                   | 158.309           |                    |         |
| 5,800.00                      | 5,734.90            | 5,677.03            | 5,676.88            | 21.05           | 20.22       | 80.48                 | 3,103.00                          | 5,776.87   | 6,412.57             | 6,371.30              | 41.27                   | 155.389           |                    |         |
| 5,900.00                      | 5,832.73            | 5,765.21            | 5,765.06            | 21.44           | 20.52       | 80.64                 | 3,103.34                          | 5,776.71   | 6,409.08             | 6,367.12              | 41.95                   | 152.773           |                    |         |
| 6,000.00                      | 5,930.56            | 5,855.74            | 5,855.59            | 21.83           | 20.83       | 80.80                 | 3,103.63                          | 5,776.69   | 6,405.77             | 6,363.13              | 42.64                   | 150.216           |                    |         |
| 6,100.00                      | 6,028.39            | 5,955.74            | 5,955.58            | 22.21           | 21.17       | 80.98                 | 3,103.72                          | 5,776.86   | 6,402.61             | 6,359.24              | 43.37                   | 147.634           |                    |         |
| 6,200.00                      | 6,126.23            | 6,063.18            | 6,063.03            | 22.60           | 21.53       | 81.18                 | 3,103.50                          | 5,776.98   | 6,399.36             | 6,355.24              | 44.12                   | 145.051           |                    |         |
| 6,300.00                      | 6,224.06            | 6,176.38            | 6,176.23            | 22.98           | 21.91       | 81.40                 | 3,102.53                          | 5,777.22   | 6,396.04             | 6,351.15              | 44.89                   | 142.490           |                    |         |
| 6,400.00                      | 6,321.89            | 6,264.49            | 6,264.32            | 23.37           | 22.21       | 81.57                 | 3,101.38                          | 5,777.46   | 6,392.68             | 6,347.11              | 45.57                   | 140.268           |                    |         |
| 6,500.00                      | 6,419.72            | 6,349.44            | 6,349.26            | 23.76           | 22.50       | 81.74                 | 3,100.36                          | 5,777.85   | 6,389.60             | 6,343.35              | 46.25                   | 138.149           |                    |         |
| 6,600.00                      | 6,517.56            | 6,423.26            | 6,423.08            | 24.14           | 22.75       | 81.88                 | 3,099.55                          | 5,778.35   | 6,386.84             | 6,339.95              | 46.89                   | 136.206           |                    |         |
| 6,700.00                      | 6,615.39            | 6,489.76            | 6,489.58            | 24.53           | 22.98       | 82.01                 | 3,098.85                          | 5,779.11   | 6,384.59             | 6,337.09              | 47.51                   | 134.398           |                    |         |
| 6,800.00                      | 6,713.22            | 6,553.37            | 6,553.17            | 24.92           | 23.20       | 82.14                 | 3,098.30                          | 5,780.15   | 6,382.93             | 6,334.82              | 48.11                   | 132.677           |                    |         |
| 6,900.00                      | 6,811.05            | 6,656.30            | 6,656.08            | 25.30           | 23.55       | 82.34                 | 3,097.52                          | 5,782.11   | 6,381.61             | 6,332.77              | 48.85                   | 130.642           |                    |         |
| 7,000.00                      | 6,908.89            | 6,767.84            | 6,767.60            | 25.69           | 23.93       | 82.56                 | 3,096.45                          | 5,784.01   | 6,380.13             | 6,330.51              | 49.62                   | 128.587           |                    |         |
| 7,100.00                      | 7,006.72            | 6,849.37            | 6,849.11            | 26.08           | 24.21       | 82.72                 | 3,095.98                          | 5,785.34   | 6,378.78             | 6,328.49              | 50.28                   | 126.857           |                    |         |
| 7,200.00                      | 7,104.55            | 6,952.96            | 6,952.69            | 26.47           | 24.57       | 82.91                 | 3,096.11                          | 5,786.85   | 6,377.57             | 6,326.55              | 51.03                   | 124.989           |                    |         |
| 7,216.87                      | 7,121.05            | 6,958.73            | 6,958.46            | 26.53           | 24.59       | 82.92                 | 3,096.13                          | 5,786.94   | 6,377.39             | 6,326.28              | 51.11                   | 124.778           |                    |         |
| 7,300.00                      | 7,202.57            | 7,011.30            | 7,011.02            | 26.85           | 24.77       | 83.01                 | 3,096.36                          | 5,787.85   | 6,376.84             | 6,325.24              | 51.61                   | 123.562           |                    |         |
| 7,333.35                      | 7,235.37            | 7,034.05            | 7,033.77            | 26.98           | 24.84       | 83.04                 | 3,096.47                          | 5,788.31   | 6,376.80             | 6,324.99              | 51.81                   | 123.075           |                    |         |
| 7,400.00                      | 7,301.06            | 7,075.50            | 7,075.20            | 27.23           | 24.99       | 83.11                 | 3,096.66                          | 5,789.28   | 6,377.02             | 6,324.81              | 52.21                   | 122.153           |                    |         |
| 7,500.00                      | 7,399.97            | 7,141.36            | 7,141.04            | 27.61           | 25.21       | 83.22                 | 3,096.93                          | 5,791.13   | 6,378.07             | 6,325.27              | 52.80                   | 120.794           |                    |         |
| 7,600.00                      | 7,499.23            | 7,211.68            | 7,211.32            | 27.98           | 25.46       | 83.33                 | 3,096.92                          | 5,793.57   | 6,379.93             | 6,326.53              | 53.41                   | 119.461           |                    |         |
| 7,700.00                      | 7,598.77            | 7,295.94            | 7,295.50            | 28.34           | 25.75       | 83.45                 | 3,096.24                          | 5,797.05   | 6,382.48             | 6,328.43              | 54.05                   | 118.075           |                    |         |
| 7,800.00                      | 7,698.53            | 7,383.03            | 7,382.49            | 28.70           | 26.05       | 83.57                 | 3,094.94                          | 5,801.04   | 6,385.55             | 6,330.84              | 54.71                   | 116.721           |                    |         |
| 7,900.00                      | 7,798.44            | 7,467.36            | 7,466.72            | 29.05           | 26.35       | 83.68                 | 3,093.83                          | 5,805.03   | 6,389.12             | 6,333.78              | 55.34                   | 115.444           |                    |         |
| 8,000.00                      | 7,898.42            | 7,553.22            | 7,552.58            | 29.39           | 26.60       | 83.80                 | 3,091.75                          | 5,812.94   | 6,392.38             | 6,334.84              | 57.54                   | 111.095           |                    |         |
| 8,013.58                      | 7,912.00            | 7,713.98            | 7,713.14            | 29.43           | 27.21       | 71.03                 | 3,091.28                          | 5,814.29   | 6,392.69             | 6,336.09              | 56.60                   | 112.940           |                    |         |
| 8,100.00                      | 7,998.42            | 7,803.51            | 7,802.64            | 29.73           | 27.52       | 71.05                 | 3,090.44                          | 5,816.54   | 6,394.48             | 6,337.28              | 57.20                   | 111.783           |                    |         |
| 8,200.00                      | 8,098.42            | 7,876.00            | 7,875.11            | 30.07           | 27.77       | 71.06                 | 3,089.81                          | 5,818.32   | 6,396.58             | 6,338.79              | 57.79                   | 110.684           |                    |         |
| 8,300.00                      | 8,198.42            | 7,876.00            | 7,875.11            | 30.41           | 27.77       | 71.06                 | 3,089.81                          | 5,818.32   | 6,399.84             | 6,341.73              | 58.12                   | 110.123           |                    |         |
| 8,363.62                      | 8,262.04            | 7,876.00            | 7,875.11            | 30.62           | 27.77       | 71.06                 | 3,089.81                          | 5,818.32   | 6,402.73             | 6,344.41              | 58.32                   | 109.795           |                    |         |
| 8,400.00                      | 8,298.40            | 7,876.00            | 7,875.11            | 30.75           | 27.77       | -18.57                | 3,089.81                          | 5,818.32   | 6,403.57             | 6,345.14              | 58.43                   | 109.603           |                    |         |
| 8,450.00                      | 8,348.10            | 7,876.00            | 7,875.11            | 30.91           | 27.77       | -18.64                | 3,089.81                          | 5,818.32   | 6,401.49             | 6,342.92              | 58.57                   | 109.298           |                    |         |
| 8,500.00                      | 8,397.14            | 7,876.00            | 7,875.11            | 31.07           | 27.77       | -18.83                | 3,089.81                          | 5,818.32   | 6,395.67             | 6,336.97              | 58.71                   | 108.939           |                    |         |
| 8,550.00                      | 8,445.15            | 7,876.00            | 7,875.11            | 31.23           | 27.77       | -19.14                | 3,089.81                          | 5,818.32   | 6,386.16             | 6,327.32              | 58.84                   | 108.530           |                    |         |
| 8,600.00                      | 8,491.77            | 7,876.00            | 7,875.11            | 31.38           | 27.77       | -19.60                | 3,089.81                          | 5,818.32   | 6,373.01             | 6,314.04              | 58.97                   | 108.075           |                    |         |
| 8,650.00                      | 8,536.65            | 7,876.00            | 7,875.11            | 31.52           | 27.77       | -20.20                | 3,089.81                          | 5,818.32   | 6,356.30             | 6,297.21              | 59.09                   | 107.575           |                    |         |
| 8,700.00                      | 8,579.43            | 7,876.00            | 7,875.11            | 31.66           | 27.77       | -20.98                | 3,089.81                          | 5,818.32   | 6,336.12             | 6,276.92              | 59.20                   | 107.036           |                    |         |
| 8,750.00                      | 8,619.80            | 7,876.00            | 7,875.11            | 31.80           | 27.77       | -21.95                | 3,089.81                          | 5,818.32   | 6,312.60             | 6,253.30              | 59.30                   | 106.458           |                    |         |
| 8,800.00                      | 8,657.44            | 7,876.00            | 7,875.11            | 31.93           | 27.77       | -23.17                | 3,089.81                          | 5,818.32   | 6,285.88             | 6,226.49              | 59.39                   | 105.846           |                    |         |
| 8,850.00                      | 8,692.08            | 7,876.00            | 7,875.11            | 32.06           | 27.77       | -24.67                | 3,089.81                          | 5,818.32   | 6,256.12             | 6,196.65              | 59.47                   | 105.201           |                    |         |
| 8,900.00                      | 8,723.44            | 7,876.00            | 7,875.11            | 32.19           | 27.77       | -26.53                | 3,089.81                          | 5,818.32   | 6,223.51             | 6,163.97              | 59.54                   | 104.526           |                    |         |
| 8,950.00                      | 8,751.29            | 7,876.00            | 7,875.11            | 32.34           | 27.77       | -28.84                | 3,089.81                          | 5,818.32   | 6,188.25             | 6,128.65              | 59.60                   | 103.823           |                    |         |
| 9,000.00                      | 8,775.42            | 7,876.00            | 7,875.11            | 32.50           | 27.77       | -31.73                | 3,089.81                          | 5,818.32   | 6,150.58             | 6,090.92              | 59.66                   | 103.095           |                    |         |
| 9,050.00                      | 8,795.64            | 7,876.00            | 7,875.11            | 32.67           | 27.77       | -35.38                | 3,089.81                          | 5,818.32   | 6,110.72             | 6,051.01              | 59.71                   | 102.343           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 18-GYRO-NS-CT |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,100.00                      | 8,811.80            | 7,876.00            | 7,875.11            | 32.87           | 27.77       | -40.03                | 3,089.81                          | 5,818.32   | 6,068.95             | 6,009.20              | 59.75                   | 101.572           |                    |         |
| 9,150.00                      | 8,823.77            | 7,876.00            | 7,875.11            | 33.10           | 27.77       | -46.00                | 3,089.81                          | 5,818.32   | 6,025.55             | 5,965.77              | 59.79                   | 100.782           |                    |         |
| 9,200.00                      | 8,831.47            | 7,876.00            | 7,875.11            | 33.34           | 27.77       | -53.65                | 3,089.81                          | 5,818.32   | 5,980.82             | 5,921.00              | 59.82                   | 99.977            |                    |         |
| 9,250.00                      | 8,834.84            | 7,876.00            | 7,875.11            | 33.60           | 27.77       | -63.31                | 3,089.81                          | 5,818.32   | 5,935.07             | 5,875.21              | 59.85                   | 99.159            |                    |         |
| 9,263.62                      | 8,835.00            | 7,876.00            | 7,875.11            | 33.67           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,922.47             | 5,862.61              | 59.86                   | 98.933            |                    |         |
| 9,300.00                      | 8,835.00            | 7,876.00            | 7,875.11            | 33.88           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,888.78             | 5,828.89              | 59.89                   | 98.334            |                    |         |
| 9,400.00                      | 8,835.00            | 7,876.00            | 7,875.11            | 34.53           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,796.33             | 5,736.37              | 59.96                   | 96.668            |                    |         |
| 9,500.00                      | 8,835.00            | 7,876.00            | 7,875.11            | 35.30           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,704.14             | 5,644.08              | 60.06                   | 94.974            |                    |         |
| 9,600.00                      | 8,835.00            | 7,876.00            | 7,875.11            | 36.17           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,612.22             | 5,552.03              | 60.18                   | 93.252            |                    |         |
| 9,700.00                      | 8,835.00            | 7,876.00            | 7,875.11            | 37.13           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,520.57             | 5,460.24              | 60.33                   | 91.500            |                    |         |
| 9,800.00                      | 8,835.00            | 7,876.00            | 7,875.11            | 38.18           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,429.22             | 5,368.71              | 60.51                   | 89.719            |                    |         |
| 9,900.00                      | 8,835.00            | 7,876.00            | 7,875.11            | 39.31           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,338.19             | 5,277.46              | 60.72                   | 87.908            |                    |         |
| 10,000.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 40.51           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,247.47             | 5,186.50              | 60.97                   | 86.068            |                    |         |
| 10,100.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 41.78           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,157.10             | 5,095.86              | 61.25                   | 84.199            |                    |         |
| 10,200.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 43.10           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,067.10             | 5,005.53              | 61.57                   | 82.302            |                    |         |
| 10,300.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 44.49           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,977.47             | 4,915.55              | 61.93                   | 80.378            |                    |         |
| 10,400.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 45.92           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,888.25             | 4,825.92              | 62.33                   | 78.427            |                    |         |
| 10,500.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 47.39           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,799.45             | 4,736.67              | 62.78                   | 76.452            |                    |         |
| 10,600.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 48.91           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,711.10             | 4,647.83              | 63.27                   | 74.455            |                    |         |
| 10,700.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 50.47           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,623.23             | 4,559.40              | 63.82                   | 72.437            |                    |         |
| 10,800.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 52.06           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,535.86             | 4,471.43              | 64.43                   | 70.402            |                    |         |
| 10,900.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 53.68           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,449.02             | 4,383.93              | 65.09                   | 68.352            |                    |         |
| 11,000.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 55.32           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,362.74             | 4,296.93              | 65.81                   | 66.291            |                    |         |
| 11,100.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 57.00           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,277.06             | 4,210.46              | 66.60                   | 64.221            |                    |         |
| 11,200.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 58.70           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,192.02             | 4,124.56              | 67.45                   | 62.149            |                    |         |
| 11,300.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 60.41           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,107.64             | 4,039.27              | 68.37                   | 60.076            |                    |         |
| 11,400.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 62.15           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,023.99             | 3,954.62              | 69.37                   | 58.007            |                    |         |
| 11,500.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 63.91           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,941.10             | 3,870.66              | 70.44                   | 55.948            |                    |         |
| 11,600.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 65.69           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,859.02             | 3,787.42              | 71.59                   | 53.902            |                    |         |
| 11,700.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 67.47           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,777.80             | 3,704.97              | 72.83                   | 51.874            |                    |         |
| 11,800.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 69.28           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,697.50             | 3,623.35              | 74.15                   | 49.868            |                    |         |
| 11,900.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 71.09           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,618.18             | 3,542.63              | 75.55                   | 47.890            |                    |         |
| 12,000.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 72.92           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,539.92             | 3,462.87              | 77.05                   | 45.944            |                    |         |
| 12,100.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 74.76           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,462.77             | 3,384.13              | 78.64                   | 44.034            |                    |         |
| 12,200.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 76.61           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,386.81             | 3,306.49              | 80.32                   | 42.164            |                    |         |
| 12,300.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 78.47           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,312.14             | 3,230.03              | 82.11                   | 40.339            |                    |         |
| 12,400.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 80.34           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,238.83             | 3,154.84              | 83.99                   | 38.561            |                    |         |
| 12,500.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 82.22           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,166.98             | 3,081.00              | 85.98                   | 36.836            |                    |         |
| 12,600.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 84.11           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,096.69             | 3,008.63              | 88.06                   | 35.165            |                    |         |
| 12,700.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 86.00           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,028.08             | 2,937.83              | 90.25                   | 33.553            |                    |         |
| 12,800.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 87.90           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,961.25             | 2,868.72              | 92.54                   | 32.001            |                    |         |
| 12,900.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 89.81           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,896.34             | 2,801.41              | 94.92                   | 30.513            |                    |         |
| 13,000.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 91.72           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,833.46             | 2,736.06              | 97.41                   | 29.089            |                    |         |
| 13,100.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 93.64           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,772.77             | 2,672.79              | 99.98                   | 27.733            |                    |         |
| 13,200.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 95.56           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,714.41             | 2,611.76              | 102.64                  | 26.445            |                    |         |
| 13,300.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 97.49           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,658.53             | 2,553.14              | 105.39                  | 25.226            |                    |         |
| 13,400.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 99.42           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,605.29             | 2,497.09              | 108.20                  | 24.078            |                    |         |
| 13,500.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 101.36          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,554.85             | 2,443.78              | 111.08                  | 23.001            |                    |         |
| 13,600.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 103.30          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,507.39             | 2,393.40              | 114.00                  | 21.996            |                    |         |
| 13,700.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 105.25          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,463.08             | 2,346.14              | 116.95                  | 21.061            |                    |         |
| 13,800.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 107.20          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,422.09             | 2,302.18              | 119.91                  | 20.199            |                    |         |
| 13,900.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 109.15          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,384.59             | 2,261.72              | 122.87                  | 19.407            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 4H - Pilot - Pilot |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | <b>Offset Site Error:</b> | 5.00 ft |
|----------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|---------------------------|---------|
| <b>Survey Program:</b> 18-GYRO-NS-CT                                                   |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                              |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning                   |         |
| Measured Depth (ft)                                                                    | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                           |         |
| 14,000.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 111.10          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,350.75             | 2,224.95              | 125.81                  | 18.685            |                           |         |
| 14,100.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 113.06          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,320.73             | 2,192.04              | 128.69                  | 18.034            |                           |         |
| 14,200.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 115.03          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,294.68             | 2,163.18              | 131.50                  | 17.450            |                           |         |
| 14,300.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 116.99          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,272.73             | 2,138.52              | 134.21                  | 16.934            |                           |         |
| 14,400.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 118.96          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,255.00             | 2,118.21              | 136.80                  | 16.484            |                           |         |
| 14,500.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 120.93          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,241.60             | 2,102.37              | 139.24                  | 16.099            |                           |         |
| 14,600.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 122.90          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,232.61             | 2,091.10              | 141.51                  | 15.777            |                           |         |
| 14,700.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 124.88          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,228.07             | 2,084.47              | 143.60                  | 15.516            |                           |         |
| 14,751.24                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 125.89          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,227.48             | 2,082.89              | 144.59                  | 15.405 CC         |                           |         |
| 14,800.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 126.86          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,228.01             | 2,082.53              | 145.48                  | 15.315 ES         |                           |         |
| 14,900.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 128.84          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,232.44             | 2,085.29              | 147.15                  | 15.171            |                           |         |
| 15,000.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 130.82          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,241.33             | 2,092.73              | 148.60                  | 15.083            |                           |         |
| 15,100.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 132.80          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,254.62             | 2,104.80              | 149.82                  | 15.049 SF         |                           |         |
| 15,200.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 134.79          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,272.23             | 2,121.43              | 150.81                  | 15.067            |                           |         |
| 15,300.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 136.78          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,294.08             | 2,142.50              | 151.58                  | 15.135            |                           |         |
| 15,400.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 138.76          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,320.03             | 2,167.90              | 152.13                  | 15.250            |                           |         |
| 15,500.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 140.76          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,349.96             | 2,197.48              | 152.48                  | 15.411            |                           |         |
| 15,600.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 142.75          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,383.71             | 2,231.07              | 152.64                  | 15.617            |                           |         |
| 15,700.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 144.74          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,421.12             | 2,268.50              | 152.62                  | 15.864            |                           |         |
| 15,800.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 146.74          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,462.02             | 2,309.58              | 152.44                  | 16.151            |                           |         |
| 15,900.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 148.73          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,506.25             | 2,354.14              | 152.11                  | 16.476            |                           |         |
| 16,000.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 150.73          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,553.64             | 2,401.98              | 151.66                  | 16.838            |                           |         |
| 16,100.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 152.73          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,604.00             | 2,452.90              | 151.10                  | 17.234            |                           |         |
| 16,200.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 154.73          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,657.17             | 2,506.74              | 150.43                  | 17.663            |                           |         |
| 16,300.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 156.73          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,712.99             | 2,563.30              | 149.69                  | 18.124            |                           |         |
| 16,400.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 158.74          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,771.29             | 2,622.41              | 148.88                  | 18.614            |                           |         |
| 16,500.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 160.74          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,831.93             | 2,683.92              | 148.01                  | 19.133            |                           |         |
| 16,600.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 162.74          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,894.75             | 2,747.65              | 147.10                  | 19.679            |                           |         |
| 16,700.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 164.75          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,959.61             | 2,813.46              | 146.16                  | 20.250            |                           |         |
| 16,800.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 166.76          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,026.40             | 2,881.21              | 145.18                  | 20.845            |                           |         |
| 16,900.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 168.77          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,094.97             | 2,950.77              | 144.20                  | 21.464            |                           |         |
| 17,000.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 170.77          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,165.21             | 3,022.02              | 143.20                  | 22.104            |                           |         |
| 17,100.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 172.78          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,237.02             | 3,094.83              | 142.19                  | 22.765            |                           |         |
| 17,200.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 174.79          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,310.30             | 3,169.11              | 141.19                  | 23.446            |                           |         |
| 17,300.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 176.81          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,384.94             | 3,244.75              | 140.19                  | 24.145            |                           |         |
| 17,400.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 178.82          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,460.86             | 3,321.66              | 139.20                  | 24.862            |                           |         |
| 17,500.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 180.83          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,537.98             | 3,399.76              | 138.22                  | 25.597            |                           |         |
| 17,600.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 182.84          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,616.22             | 3,478.97              | 137.26                  | 26.347            |                           |         |
| 17,700.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 184.86          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,695.52             | 3,559.21              | 136.31                  | 27.112            |                           |         |
| 17,800.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 186.87          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,775.79             | 3,640.42              | 135.37                  | 27.892            |                           |         |
| 17,900.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 188.89          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,856.99             | 3,722.53              | 134.46                  | 28.685            |                           |         |
| 18,000.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 190.91          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,939.05             | 3,805.48              | 133.57                  | 29.492            |                           |         |
| 18,100.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 192.92          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,021.92             | 3,889.23              | 132.69                  | 30.310            |                           |         |
| 18,200.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 194.94          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,105.56             | 3,973.72              | 131.84                  | 31.141            |                           |         |
| 18,300.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 196.96          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,189.91             | 4,058.90              | 131.01                  | 31.983            |                           |         |
| 18,400.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 198.98          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,274.94             | 4,144.74              | 130.20                  | 32.835            |                           |         |
| 18,500.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 201.00          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,360.60             | 4,231.20              | 129.41                  | 33.697            |                           |         |
| 18,600.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 203.02          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,446.86             | 4,318.23              | 128.64                  | 34.569            |                           |         |
| 18,700.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 205.04          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,533.69             | 4,405.80              | 127.89                  | 35.450            |                           |         |
| 18,800.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 207.06          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,621.05             | 4,493.89              | 127.16                  | 36.340            |                           |         |
| 18,900.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 209.08          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,708.91             | 4,582.46              | 126.46                  | 37.238            |                           |         |
| 19,000.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 211.10          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,797.25             | 4,671.48              | 125.77                  | 38.143            |                           |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                 |                |                |                |                 |        |                   |                        |                 |                  |                    | Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 4H - Pilot - Pilot |        | Offset Site Error: |  | 5.00 ft |
|-------------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------------------------------------------------------|--------|--------------------|--|---------|
| Survey Program: 18-GYRO-NS-CT |                |                |                |                 |        |                   |                        |                 |                  |                    |                                                                   |        | Offset Well Error: |  | 0.50 ft |
| Reference                     |                | Offset         |                | Semi Major Axis |        |                   | Distance               |                 |                  |                    |                                                                   |        | Warning            |  |         |
| Measured Depth                | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor                                                 |        |                    |  |         |
| (ft)                          | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft)      | (ft)             | (ft)               | (ft)                                                              |        |                    |  |         |
| 19,100.00                     | 8,835.00       | 7,876.00       | 7,875.11       | 213.12          | 27.77  | -66.31            | 3,089.81               | 5,818.32        | 4,886.04         | 4,760.93           | 125.10                                                            | 39.056 |                    |  |         |
| 19,200.00                     | 8,835.00       | 7,876.00       | 7,875.11       | 215.15          | 27.77  | -66.31            | 3,089.81               | 5,818.32        | 4,975.25         | 4,850.79           | 124.46                                                            | 39.976 |                    |  |         |
| 19,308.27                     | 8,835.00       | 7,876.00       | 7,875.11       | 217.34          | 27.77  | -66.31            | 3,089.81               | 5,818.32        | 5,072.29         | 4,948.52           | 123.78                                                            | 40.980 |                    |  |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 18-GYRO-NS-CT, 4369-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                                         | 0.00                | 0.00                | 0.00                | 0.50            | 5.02        | 61.82                 | 3,098.47                          | 5,783.09   | 6,561.16             |                       |                         |                   |                    |         |
| 100.00                                       | 100.00              | 9.67                | 9.67                | 0.52            | 5.02        | 61.82                 | 3,098.48                          | 5,783.10   | 6,560.91             | 6,555.37              | 5.54                    | 1,183.697         |                    |         |
| 200.00                                       | 200.00              | 83.56               | 83.56               | 0.70            | 5.03        | 61.82                 | 3,098.88                          | 5,783.50   | 6,561.60             | 6,555.87              | 5.73                    | 1,145.501         |                    |         |
| 300.00                                       | 300.00              | 189.18              | 189.17              | 0.99            | 5.04        | 61.82                 | 3,099.08                          | 5,784.32   | 6,562.37             | 6,556.35              | 6.03                    | 1,088.339         |                    |         |
| 400.00                                       | 400.00              | 288.98              | 288.98              | 1.31            | 5.08        | 61.82                 | 3,098.99                          | 5,785.15   | 6,563.07             | 6,556.67              | 6.39                    | 1,026.684         |                    |         |
| 500.00                                       | 500.00              | 386.93              | 386.92              | 1.65            | 5.15        | 61.83                 | 3,099.00                          | 5,785.95   | 6,563.79             | 6,556.99              | 6.79                    | 966.316           |                    |         |
| 600.00                                       | 600.00              | 491.69              | 491.68              | 1.99            | 5.24        | 61.83                 | 3,098.98                          | 5,786.79   | 6,564.49             | 6,557.26              | 7.23                    | 908.113           |                    |         |
| 700.00                                       | 700.00              | 596.24              | 596.22              | 2.34            | 5.35        | 61.83                 | 3,098.78                          | 5,787.62   | 6,565.10             | 6,557.41              | 7.69                    | 853.455           |                    |         |
| 800.00                                       | 800.00              | 740.90              | 740.88              | 2.69            | 5.55        | 61.83                 | 3,099.49                          | 5,788.04   | 6,565.69             | 6,557.45              | 8.24                    | 796.975           |                    |         |
| 900.00                                       | 900.00              | 883.72              | 883.69              | 3.04            | 5.78        | 61.83                 | 3,099.34                          | 5,787.08   | 6,564.95             | 6,556.13              | 8.82                    | 744.428           |                    |         |
| 1,000.00                                     | 1,000.00            | 953.30              | 953.27              | 3.40            | 5.90        | 61.83                 | 3,098.70                          | 5,787.16   | 6,564.56             | 6,555.26              | 9.30                    | 706.144           |                    |         |
| 1,018.08                                     | 1,018.08            | 953.30              | 953.27              | 3.46            | 5.90        | 61.83                 | 3,098.70                          | 5,787.16   | 6,564.53             | 6,555.17              | 9.36                    | 701.299           |                    |         |
| 1,100.00                                     | 1,100.00            | 1,029.12            | 1,029.09            | 3.75            | 6.04        | 61.84                 | 3,098.01                          | 5,787.59   | 6,564.59             | 6,554.80              | 9.79                    | 670.234           |                    |         |
| 1,200.00                                     | 1,200.00            | 1,129.89            | 1,129.85            | 4.11            | 6.24        | 61.85                 | 3,097.46                          | 5,787.99   | 6,564.69             | 6,554.33              | 10.35                   | 634.124           |                    |         |
| 1,300.00                                     | 1,300.00            | 1,225.37            | 1,225.33            | 4.46            | 6.45        | 61.85                 | 3,097.19                          | 5,788.25   | 6,564.80             | 6,553.88              | 10.91                   | 601.617           |                    |         |
| 1,400.00                                     | 1,400.00            | 1,321.64            | 1,321.60            | 4.82            | 6.67        | 61.85                 | 3,097.00                          | 5,788.55   | 6,564.98             | 6,553.49              | 11.48                   | 571.652           |                    |         |
| 1,500.00                                     | 1,500.00            | 1,420.59            | 1,420.55            | 5.18            | 6.90        | 61.86                 | 3,096.78                          | 5,788.91   | 6,565.19             | 6,553.12              | 12.07                   | 543.792           |                    |         |
| 1,600.00                                     | 1,600.00            | 1,527.00            | 1,526.96            | 5.53            | 7.16        | 61.86                 | 3,096.33                          | 5,789.37   | 6,565.38             | 6,552.69              | 12.69                   | 517.379           |                    |         |
| 1,700.00                                     | 1,700.00            | 1,645.52            | 1,645.48            | 5.89            | 7.46        | 61.87                 | 3,095.68                          | 5,789.69   | 6,565.35             | 6,552.01              | 13.35                   | 491.901           |                    |         |
| 1,800.00                                     | 1,800.00            | 1,761.51            | 1,761.46            | 6.25            | 7.76        | 61.87                 | 3,095.09                          | 5,789.65   | 6,565.08             | 6,551.07              | 14.01                   | 468.690           |                    |         |
| 1,900.00                                     | 1,900.00            | 1,861.65            | 1,861.60            | 6.61            | 8.03        | 61.87                 | 3,094.84                          | 5,789.28   | 6,564.64             | 6,550.01              | 14.63                   | 448.605           |                    |         |
| 2,000.00                                     | 2,000.00            | 1,961.72            | 1,961.67            | 6.96            | 8.31        | 61.87                 | 3,094.89                          | 5,788.82   | 6,564.25             | 6,548.99              | 15.27                   | 430.001           |                    |         |
| 2,100.00                                     | 2,099.99            | 2,066.48            | 2,066.43            | 7.32            | 8.60        | 74.66                 | 3,094.99                          | 5,788.24   | 6,563.59             | 6,547.67              | 15.92                   | 412.381           |                    |         |
| 2,200.00                                     | 2,199.96            | 2,172.84            | 2,172.79            | 7.68            | 8.90        | 74.69                 | 3,095.11                          | 5,787.55   | 6,562.37             | 6,545.79              | 16.58                   | 395.883           |                    |         |
| 2,300.00                                     | 2,299.86            | 2,273.33            | 2,273.27            | 8.04            | 9.19        | 74.74                 | 3,095.32                          | 5,786.77   | 6,560.64             | 6,543.41              | 17.22                   | 380.888           |                    |         |
| 2,400.00                                     | 2,399.68            | 2,366.26            | 2,366.20            | 8.39            | 9.47        | 74.80                 | 3,095.58                          | 5,786.07   | 6,558.50             | 6,540.64              | 17.85                   | 367.337           |                    |         |
| 2,500.00                                     | 2,499.37            | 2,455.94            | 2,455.87            | 8.75            | 9.73        | 74.88                 | 3,095.88                          | 5,785.51   | 6,556.04             | 6,537.57              | 18.48                   | 354.820           |                    |         |
| 2,600.00                                     | 2,598.90            | 2,563.11            | 2,563.05            | 9.11            | 10.06       | 74.99                 | 3,096.11                          | 5,784.92   | 6,553.15             | 6,533.99              | 19.16                   | 342.103           |                    |         |
| 2,700.00                                     | 2,698.26            | 2,664.76            | 2,664.70            | 9.46            | 10.37       | 75.12                 | 3,096.11                          | 5,784.39   | 6,549.75             | 6,529.93              | 19.82                   | 330.451           |                    |         |
| 2,800.00                                     | 2,797.40            | 2,764.23            | 2,764.16            | 9.82            | 10.67       | 75.26                 | 3,096.22                          | 5,783.77   | 6,545.89             | 6,525.41              | 20.48                   | 319.582           |                    |         |
| 2,900.00                                     | 2,896.30            | 2,900.00            | 4,980.63            | 10.18           | 18.06       | 103.76                | 275.86                            | 6,143.58   | 6,526.65             | 6,499.41              | 27.24                   | 239.614           |                    |         |
| 3,000.00                                     | 2,994.93            | 3,000.00            | 4,980.42            | 10.54           | 16.62       | 103.92                | 290.68                            | 6,143.16   | 6,497.80             | 6,471.52              | 26.28                   | 247.241           |                    |         |
| 3,100.00                                     | 3,093.26            | 3,100.00            | 4,978.33            | 10.90           | 15.61       | 102.76                | 449.32                            | 6,136.74   | 6,470.55             | 6,444.88              | 25.67                   | 252.071           |                    |         |
| 3,195.07                                     | 3,186.42            | 7,420.03            | 4,978.31            | 11.24           | 44.32       | 102.97                | 452.87                            | 6,136.63   | 6,446.20             | 6,392.66              | 53.54                   | 120.391           |                    |         |
| 3,200.00                                     | 3,191.25            | 7,417.42            | 4,978.29            | 11.26           | 44.28       | 102.95                | 455.48                            | 6,136.50   | 6,444.98             | 6,391.44              | 53.54                   | 120.387           |                    |         |
| 3,300.00                                     | 3,289.08            | 7,364.55            | 4,977.80            | 11.62           | 43.55       | 102.48                | 508.26                            | 6,133.65   | 6,420.86             | 6,367.48              | 53.37                   | 120.300           |                    |         |
| 3,400.00                                     | 3,386.91            | 7,339.96            | 4,977.56            | 11.98           | 43.21       | 102.25                | 532.82                            | 6,132.24   | 6,398.08             | 6,344.50              | 53.57                   | 119.429           |                    |         |
| 3,500.00                                     | 3,484.74            | 7,326.09            | 4,977.42            | 12.35           | 43.02       | 102.13                | 546.67                            | 6,131.45   | 6,376.73             | 6,322.83              | 53.90                   | 118.296           |                    |         |
| 3,600.00                                     | 3,582.58            | 7,312.22            | 4,977.28            | 12.72           | 42.83       | 102.00                | 560.51                            | 6,130.67   | 6,356.85             | 6,302.62              | 54.23                   | 117.216           |                    |         |
| 3,700.00                                     | 3,680.41            | 7,298.35            | 4,977.14            | 13.09           | 42.64       | 101.88                | 574.36                            | 6,129.91   | 6,338.44             | 6,283.89              | 54.55                   | 116.189           |                    |         |
| 3,800.00                                     | 3,778.24            | 7,284.49            | 4,977.00            | 13.46           | 42.45       | 101.76                | 588.20                            | 6,129.16   | 6,321.52             | 6,266.65              | 54.87                   | 115.216           |                    |         |
| 3,900.00                                     | 3,876.08            | 7,270.64            | 4,976.87            | 13.83           | 42.26       | 101.63                | 602.03                            | 6,128.42   | 6,306.10             | 6,250.92              | 55.17                   | 114.296           |                    |         |
| 4,000.00                                     | 3,973.91            | 7,256.00            | 4,976.72            | 14.21           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,292.18             | 6,236.72              | 55.46                   | 113.450           |                    |         |
| 4,100.00                                     | 4,071.74            | 7,256.00            | 4,976.72            | 14.58           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,279.80             | 6,223.87              | 55.94                   | 112.269           |                    |         |
| 4,200.00                                     | 4,169.57            | 7,256.00            | 4,976.72            | 14.96           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,268.99             | 6,212.60              | 56.40                   | 111.153           |                    |         |
| 4,300.00                                     | 4,267.41            | 7,256.00            | 4,976.72            | 15.33           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,259.77             | 6,202.91              | 56.85                   | 110.101           |                    |         |
| 4,400.00                                     | 4,365.24            | 7,256.00            | 4,976.72            | 15.71           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,252.12             | 6,194.82              | 57.30                   | 109.110           |                    |         |
| 4,500.00                                     | 4,463.07            | 7,256.00            | 4,976.72            | 16.09           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,246.07             | 6,188.34              | 57.74                   | 108.181           |                    |         |
| 4,600.00                                     | 4,560.90            | 7,256.00            | 4,976.72            | 16.47           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,241.62             | 6,183.46              | 58.16                   | 107.312           |                    |         |
| 4,700.00                                     | 4,658.74            | 7,256.00            | 4,976.72            | 16.85           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,238.77             | 6,180.19              | 58.58                   | 106.503           |                    |         |
| 4,800.00                                     | 4,756.57            | 7,218.39            | 4,976.55            | 17.23           | 41.56       | 101.16                | 654.22                            | 6,126.05   | 6,237.05             | 6,178.55              | 58.50                   | 106.614           |                    |         |
| 4,835.96                                     | 4,791.75            | 7,216.60            | 4,976.55            | 17.36           | 41.53       | 101.14                | 656.01                            | 6,125.99   | 6,236.95             | 6,178.32              | 58.62                   | 106.394           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 18-GYRO-NS-CT, 4369-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 4,900.00                                     | 4,854.40            | 7,213.38            | 4,976.56            | 17.61           | 41.49       | 101.11                | 659.23                            | 6,125.89   | 6,237.27             | 6,178.44              | 58.83                   | 106.021           |                    |         |
| 5,000.00                                     | 4,952.23            | 7,208.31            | 4,976.58            | 17.99           | 41.42       | 101.07                | 664.30                            | 6,125.74   | 6,239.08             | 6,179.93              | 59.15                   | 105.483           |                    |         |
| 5,100.00                                     | 5,050.07            | 7,203.17            | 4,976.60            | 18.37           | 41.35       | 101.02                | 669.44                            | 6,125.60   | 6,242.47             | 6,183.02              | 59.45                   | 104.999           |                    |         |
| 5,200.00                                     | 5,147.95            | 7,197.95            | 4,976.63            | 18.75           | 41.28       | 100.98                | 674.65                            | 6,125.47   | 6,247.45             | 6,187.71              | 59.74                   | 104.569           |                    |         |
| 5,300.00                                     | 5,245.73            | 7,191.00            | 4,977.09            | 19.14           | 40.79       | 100.64                | 711.59                            | 6,124.92   | 6,254.32             | 6,194.70              | 59.62                   | 104.903           |                    |         |
| 5,400.00                                     | 5,343.56            | 7,161.00            | 4,977.09            | 19.52           | 40.79       | 100.64                | 711.59                            | 6,124.92   | 6,262.35             | 6,202.39              | 59.96                   | 104.450           |                    |         |
| 5,500.00                                     | 5,441.40            | 7,161.00            | 4,977.09            | 19.90           | 40.79       | 100.64                | 711.59                            | 6,124.92   | 6,271.96             | 6,211.68              | 60.28                   | 104.050           |                    |         |
| 5,600.00                                     | 5,539.23            | 7,161.00            | 4,977.09            | 20.29           | 40.79       | 100.64                | 711.59                            | 6,124.92   | 6,283.14             | 6,222.55              | 60.59                   | 103.701           |                    |         |
| 5,700.00                                     | 5,637.06            | 7,161.00            | 4,977.09            | 20.67           | 40.79       | 100.64                | 711.59                            | 6,124.92   | 6,295.90             | 6,235.01              | 60.89                   | 103.402           |                    |         |
| 5,800.00                                     | 5,734.90            | 6,404.00            | 4,985.02            | 21.05           | 30.74       | 93.88                 | 1,464.97                          | 6,072.35   | 6,309.98             | 6,258.48              | 51.50                   | 122.531           |                    |         |
| 5,900.00                                     | 5,832.73            | 6,404.00            | 4,985.02            | 21.44           | 30.74       | 93.88                 | 1,464.97                          | 6,072.35   | 6,323.27             | 6,271.48              | 51.80                   | 122.075           |                    |         |
| 6,000.00                                     | 5,930.56            | 6,384.27            | 4,985.08            | 21.83           | 30.48       | 93.70                 | 1,484.54                          | 6,069.84   | 6,338.08             | 6,286.24              | 51.84                   | 122.273           |                    |         |
| 6,100.00                                     | 6,028.39            | 6,368.75            | 4,985.21            | 22.21           | 30.28       | 93.57                 | 1,499.93                          | 6,067.89   | 6,354.37             | 6,302.46              | 51.92                   | 122.393           |                    |         |
| 6,200.00                                     | 6,126.23            | 6,352.64            | 4,985.40            | 22.60           | 30.06       | 93.42                 | 1,515.92                          | 6,065.90   | 6,372.14             | 6,320.16              | 51.98                   | 122.582           |                    |         |
| 6,300.00                                     | 6,224.06            | 6,335.90            | 4,985.68            | 22.98           | 29.84       | 93.27                 | 1,532.53                          | 6,063.85   | 6,391.37             | 6,339.34              | 52.03                   | 122.838           |                    |         |
| 6,400.00                                     | 6,321.89            | 6,318.50            | 4,986.04            | 23.37           | 29.62       | 93.12                 | 1,549.80                          | 6,061.75   | 6,412.04             | 6,359.98              | 52.06                   | 123.163           |                    |         |
| 6,500.00                                     | 6,419.72            | 6,299.62            | 4,986.52            | 23.76           | 29.37       | 92.95                 | 1,568.54                          | 6,059.51   | 6,434.14             | 6,382.07              | 52.07                   | 123.572           |                    |         |
| 6,600.00                                     | 6,517.56            | 6,279.99            | 4,987.02            | 24.14           | 29.12       | 92.78                 | 1,588.03                          | 6,057.19   | 6,457.64             | 6,405.58              | 52.06                   | 124.046           |                    |         |
| 6,700.00                                     | 6,615.39            | 6,260.30            | 4,987.53            | 24.53           | 28.86       | 92.60                 | 1,607.57                          | 6,054.87   | 6,482.52             | 6,430.48              | 52.04                   | 124.567           |                    |         |
| 6,800.00                                     | 6,713.22            | 6,240.57            | 4,988.05            | 24.92           | 28.61       | 92.43                 | 1,627.17                          | 6,052.57   | 6,508.78             | 6,456.77              | 52.01                   | 125.135           |                    |         |
| 6,900.00                                     | 6,811.05            | 6,220.78            | 4,988.58            | 25.30           | 28.36       | 92.25                 | 1,646.81                          | 6,050.26   | 6,536.39             | 6,484.41              | 51.98                   | 125.749           |                    |         |
| 7,000.00                                     | 6,908.89            | 6,218.00            | 4,988.65            | 25.69           | 28.32       | 92.23                 | 1,649.57                          | 6,049.94   | 6,565.37             | 6,513.22              | 52.14                   | 125.907           |                    |         |
| 7,100.00                                     | 7,006.72            | 5,751.00            | 4,988.46            | 26.08           | 22.59       | 88.07                 | 2,110.13                          | 5,976.96   | 6,594.71             | 6,547.82              | 46.89                   | 140.637           |                    |         |
| 7,200.00                                     | 7,104.55            | 5,717.37            | 4,987.54            | 26.47           | 22.21       | 87.77                 | 2,143.02                          | 5,970.02   | 6,624.75             | 6,578.01              | 46.73                   | 141.751           |                    |         |
| 7,216.87                                     | 7,121.05            | 5,716.30            | 4,987.51            | 26.53           | 22.20       | 87.76                 | 2,144.06                          | 5,969.81   | 6,629.98             | 6,583.22              | 46.76                   | 141.794           |                    |         |
| 7,300.00                                     | 7,202.57            | 5,711.32            | 4,987.40            | 26.85           | 22.14       | 88.14                 | 2,148.94                          | 5,968.82   | 6,656.33             | 6,609.47              | 46.87                   | 142.025           |                    |         |
| 7,400.00                                     | 7,301.06            | 5,706.07            | 4,987.29            | 27.23           | 22.08       | 88.61                 | 2,154.10                          | 5,967.78   | 6,689.33             | 6,642.33              | 47.00                   | 142.339           |                    |         |
| 7,500.00                                     | 7,399.97            | 5,701.63            | 4,987.20            | 27.61           | 22.03       | 89.12                 | 2,158.44                          | 5,966.92   | 6,723.70             | 6,676.58              | 47.12                   | 142.694           |                    |         |
| 7,600.00                                     | 7,499.23            | 5,698.04            | 4,987.13            | 27.98           | 21.99       | 89.66                 | 2,161.97                          | 5,966.23   | 6,759.41             | 6,712.17              | 47.24                   | 143.086           |                    |         |
| 7,700.00                                     | 7,598.77            | 5,695.32            | 4,987.08            | 28.34           | 21.96       | 90.24                 | 2,164.64                          | 5,965.70   | 6,796.41             | 6,749.05              | 47.36                   | 143.513           |                    |         |
| 7,800.00                                     | 7,698.53            | 5,693.49            | 4,987.05            | 28.70           | 21.94       | 90.84                 | 2,166.43                          | 5,965.35   | 6,834.66             | 6,787.18              | 47.47                   | 143.973           |                    |         |
| 7,900.00                                     | 7,798.44            | 5,692.58            | 4,987.03            | 29.05           | 21.93       | 91.48                 | 2,167.33                          | 5,965.18   | 6,874.11             | 6,826.53              | 47.58                   | 144.461           |                    |         |
| 8,000.00                                     | 7,898.42            | 5,692.60            | 4,987.03            | 29.39           | 21.93       | 92.14                 | 2,167.30                          | 5,965.18   | 6,914.73             | 6,867.03              | 47.70                   | 144.976           |                    |         |
| 8,013.58                                     | 7,912.00            | 5,692.68            | 4,987.04            | 29.43           | 21.93       | 79.46                 | 2,167.23                          | 5,965.20   | 6,920.33             | 6,872.62              | 47.71                   | 145.048           |                    |         |
| 8,100.00                                     | 7,998.42            | 5,693.24            | 4,987.05            | 29.73           | 21.94       | 79.46                 | 2,166.68                          | 5,965.30   | 6,956.49             | 6,908.69              | 47.80                   | 145.518           |                    |         |
| 8,200.00                                     | 8,098.42            | 5,693.89            | 4,987.06            | 30.07           | 21.95       | 79.47                 | 2,166.04                          | 5,965.43   | 6,999.43             | 6,951.52              | 47.91                   | 146.095           |                    |         |
| 8,300.00                                     | 8,198.42            | 5,694.56            | 4,987.07            | 30.41           | 21.95       | 79.47                 | 2,165.39                          | 5,965.56   | 7,043.54             | 6,995.52              | 48.01                   | 146.706           |                    |         |
| 8,363.62                                     | 8,262.04            | 5,694.99            | 4,987.08            | 30.62           | 21.96       | 79.48                 | 2,164.96                          | 5,965.64   | 7,072.18             | 7,024.11              | 48.07                   | 147.111           |                    |         |
| 8,400.00                                     | 8,298.40            | 5,695.32            | 4,987.08            | 30.75           | 21.96       | -9.88                 | 2,164.64                          | 5,965.70   | 7,087.75             | 7,039.65              | 48.10                   | 147.340           |                    |         |
| 8,450.00                                     | 8,348.10            | 5,696.04            | 4,987.10            | 30.91           | 21.97       | -9.54                 | 2,163.93                          | 5,965.84   | 7,105.99             | 7,057.85              | 48.14                   | 147.603           |                    |         |
| 8,500.00                                     | 8,397.14            | 5,697.07            | 4,987.11            | 31.07           | 21.98       | -9.29                 | 2,162.92                          | 5,966.04   | 7,120.48             | 7,072.30              | 48.18                   | 147.791           |                    |         |
| 8,550.00                                     | 8,445.15            | 5,698.41            | 4,987.14            | 31.23           | 22.00       | -9.10                 | 2,161.60                          | 5,966.30   | 7,131.14             | 7,082.92              | 48.21                   | 147.904           |                    |         |
| 8,600.00                                     | 8,491.77            | 5,700.06            | 4,987.17            | 31.38           | 22.02       | -8.98                 | 2,159.98                          | 5,966.62   | 7,137.89             | 7,089.64              | 48.25                   | 147.942           |                    |         |
| 8,650.00                                     | 8,536.65            | 5,702.02            | 4,987.21            | 31.52           | 22.04       | -8.92                 | 2,158.07                          | 5,966.99   | 7,140.70             | 7,092.42              | 48.28                   | 147.909           |                    |         |
| 8,700.00                                     | 8,579.43            | 5,704.27            | 4,987.25            | 31.66           | 22.06       | -8.92                 | 2,155.86                          | 5,967.43   | 7,139.55             | 7,091.24              | 48.30                   | 147.806           |                    |         |
| 8,750.00                                     | 8,619.80            | 5,706.82            | 4,987.31            | 31.80           | 22.09       | -8.98                 | 2,153.36                          | 5,967.93   | 7,134.44             | 7,086.12              | 48.33                   | 147.634           |                    |         |
| 8,800.00                                     | 8,657.44            | 5,709.64            | 4,987.37            | 31.93           | 22.12       | -9.10                 | 2,150.59                          | 5,968.49   | 7,125.42             | 7,077.07              | 48.34                   | 147.394           |                    |         |
| 8,850.00                                     | 8,692.08            | 5,712.73            | 4,987.43            | 32.06           | 22.16       | -9.29                 | 2,147.56                          | 5,969.10   | 7,112.52             | 7,064.16              | 48.36                   | 147.088           |                    |         |
| 8,900.00                                     | 8,723.44            | 5,716.08            | 4,987.51            | 32.19           | 22.20       | -9.55                 | 2,144.28                          | 5,969.76   | 7,095.83             | 7,047.46              | 48.36                   | 146.718           |                    |         |
| 8,950.00                                     | 8,751.29            | 5,719.66            | 4,987.59            | 32.34           | 22.24       | -9.90                 | 2,140.78                          | 5,970.48   | 7,075.44             | 7,027.08              | 48.37                   | 146.284           |                    |         |
| 9,000.00                                     | 8,775.42            | 5,723.45            | 4,987.69            | 32.50           | 22.28       | -10.34                | 2,137.07                          | 5,971.24   | 7,051.49             | 7,003.12              | 48.37                   | 145.789           |                    |         |
| 9,050.00                                     | 8,795.64            | 5,751.00            | 4,988.46            | 32.67           | 22.59       | -10.68                | 2,110.13                          | 5,976.96   | 7,024.20             | 6,975.61              | 48.59                   | 144.550           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 18-GYRO-NS-CT, 4369-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,100.00                                     | 8,811.80            | 5,751.00            | 4,988.46            | 32.87           | 22.59       | -11.43                | 2,110.13                          | 5,976.96   | 6,993.53             | 6,944.99              | 48.55                   | 144.061           |                    |         |
| 9,150.00                                     | 8,823.77            | 5,751.00            | 4,988.46            | 33.10           | 22.59       | -12.37                | 2,110.13                          | 5,976.96   | 6,959.81             | 6,911.31              | 48.49                   | 143.517           |                    |         |
| 9,200.00                                     | 8,831.47            | 5,751.00            | 4,988.46            | 33.34           | 22.59       | -13.57                | 2,110.13                          | 5,976.96   | 6,923.24             | 6,874.80              | 48.44                   | 142.922           |                    |         |
| 9,250.00                                     | 8,834.84            | 5,751.00            | 4,988.46            | 33.60           | 22.59       | -15.14                | 2,110.13                          | 5,976.96   | 6,884.06             | 6,835.67              | 48.39                   | 142.274           |                    |         |
| 9,263.62                                     | 8,835.00            | 5,751.00            | 4,988.46            | 33.67           | 22.59       | -15.65                | 2,110.13                          | 5,976.96   | 6,872.96             | 6,824.59              | 48.37                   | 142.081           |                    |         |
| 9,300.00                                     | 8,835.00            | 5,751.00            | 4,988.46            | 33.88           | 22.59       | -15.65                | 2,110.13                          | 5,976.96   | 6,843.14             | 6,794.81              | 48.33                   | 141.594           |                    |         |
| 9,400.00                                     | 8,835.00            | 5,856.46            | 4,992.64            | 34.53           | 23.85       | -14.20                | 2,007.09                          | 5,999.01   | 6,761.27             | 6,711.99              | 49.27                   | 137.223           |                    |         |
| 9,500.00                                     | 8,835.00            | 5,871.27            | 4,993.22            | 35.30           | 24.03       | -14.00                | 1,992.59                          | 6,002.01   | 6,679.77             | 6,630.47              | 49.30                   | 135.480           |                    |         |
| 9,600.00                                     | 8,835.00            | 6,185.95            | 4,989.52            | 36.17           | 27.92       | -9.46                 | 1,681.42                          | 6,046.43   | 6,598.30             | 6,545.96              | 52.34                   | 126.066           |                    |         |
| 9,700.00                                     | 8,835.00            | 6,189.15            | 4,989.44            | 37.13           | 27.96       | -9.41                 | 1,678.23                          | 6,046.76   | 6,517.16             | 6,464.92              | 52.23                   | 124.773           |                    |         |
| 9,800.00                                     | 8,835.00            | 6,218.00            | 4,988.65            | 38.18           | 28.32       | -8.99                 | 1,649.57                          | 6,049.94   | 6,436.69             | 6,384.31              | 52.38                   | 122.880           |                    |         |
| 9,900.00                                     | 8,835.00            | 6,218.00            | 4,988.65            | 39.31           | 28.32       | -8.99                 | 1,649.57                          | 6,049.94   | 6,356.58             | 6,304.33              | 52.25                   | 121.649           |                    |         |
| 10,000.00                                    | 8,835.00            | 6,218.00            | 4,988.65            | 40.51           | 28.32       | -8.99                 | 1,649.57                          | 6,049.94   | 6,277.05             | 6,224.91              | 52.13                   | 120.404           |                    |         |
| 10,100.00                                    | 8,835.00            | 6,218.00            | 4,988.65            | 41.78           | 28.32       | -8.99                 | 1,649.57                          | 6,049.94   | 6,198.10             | 6,146.08              | 52.02                   | 119.144           |                    |         |
| 10,200.00                                    | 8,835.00            | 6,218.00            | 4,988.65            | 43.10           | 28.32       | -8.99                 | 1,649.57                          | 6,049.94   | 6,119.77             | 6,067.85              | 51.92                   | 117.869           |                    |         |
| 10,300.00                                    | 8,835.00            | 6,218.00            | 4,988.65            | 44.49           | 28.32       | -8.99                 | 1,649.57                          | 6,049.94   | 6,042.08             | 5,990.25              | 51.83                   | 116.577           |                    |         |
| 10,400.00                                    | 8,835.00            | 6,218.00            | 4,988.65            | 45.92           | 28.32       | -8.99                 | 1,649.57                          | 6,049.94   | 5,965.05             | 5,913.30              | 51.75                   | 115.267           |                    |         |
| 10,500.00                                    | 8,835.00            | 6,218.38            | 4,988.64            | 47.39           | 28.33       | -8.98                 | 1,649.19                          | 6,049.99   | 5,888.72             | 5,837.03              | 51.69                   | 113.933           |                    |         |
| 10,600.00                                    | 8,835.00            | 6,228.60            | 4,988.37            | 48.91           | 28.46       | -8.83                 | 1,639.04                          | 6,051.17   | 5,813.09             | 5,761.37              | 51.72                   | 112.390           |                    |         |
| 10,700.00                                    | 8,835.00            | 6,238.88            | 4,988.10            | 50.47           | 28.59       | -8.68                 | 1,628.84                          | 6,052.37   | 5,738.19             | 5,686.42              | 51.77                   | 110.842           |                    |         |
| 10,800.00                                    | 8,835.00            | 6,249.22            | 4,987.82            | 52.06           | 28.72       | -8.53                 | 1,618.58                          | 6,053.58   | 5,664.05             | 5,612.22              | 51.83                   | 109.287           |                    |         |
| 10,900.00                                    | 8,835.00            | 6,259.62            | 4,987.55            | 53.68           | 28.86       | -8.37                 | 1,608.25                          | 6,054.79   | 5,590.68             | 5,538.79              | 51.90                   | 107.727           |                    |         |
| 11,000.00                                    | 8,835.00            | 6,270.08            | 4,987.28            | 55.32           | 28.99       | -8.22                 | 1,597.86                          | 6,056.02   | 5,518.14             | 5,466.16              | 51.98                   | 106.163           |                    |         |
| 11,100.00                                    | 8,835.00            | 6,280.61            | 4,987.00            | 57.00           | 29.13       | -8.06                 | 1,587.42                          | 6,057.26   | 5,446.44             | 5,394.37              | 52.07                   | 104.594           |                    |         |
| 11,200.00                                    | 8,835.00            | 6,291.19            | 4,986.73            | 58.70           | 29.26       | -7.91                 | 1,576.91                          | 6,058.51   | 5,375.63             | 5,323.45              | 52.18                   | 103.022           |                    |         |
| 11,300.00                                    | 8,835.00            | 6,301.85            | 4,986.46            | 60.41           | 29.40       | -7.75                 | 1,566.33                          | 6,059.77   | 5,305.73             | 5,253.43              | 52.30                   | 101.446           |                    |         |
| 11,400.00                                    | 8,835.00            | 6,315.58            | 4,986.11            | 62.15           | 29.58       | -7.54                 | 1,552.70                          | 6,061.41   | 5,236.78             | 5,184.33              | 52.46                   | 99.827            |                    |         |
| 11,500.00                                    | 8,835.00            | 6,348.14            | 4,985.47            | 63.91           | 30.00       | -7.06                 | 1,520.39                          | 6,065.34   | 5,168.80             | 5,116.04              | 52.76                   | 97.959            |                    |         |
| 11,600.00                                    | 8,835.00            | 6,382.60            | 4,985.09            | 65.69           | 30.46       | -6.55                 | 1,486.20                          | 6,069.63   | 5,101.80             | 5,048.71              | 53.09                   | 96.095            |                    |         |
| 11,700.00                                    | 8,835.00            | 6,419.13            | 4,985.04            | 67.47           | 30.94       | -6.01                 | 1,449.96                          | 6,074.30   | 5,035.80             | 4,982.36              | 53.44                   | 94.237            |                    |         |
| 11,800.00                                    | 8,835.00            | 6,417.71            | 4,985.03            | 69.28           | 30.93       | -6.03                 | 1,451.38                          | 6,074.13   | 4,970.92             | 4,917.38              | 53.54                   | 92.845            |                    |         |
| 11,900.00                                    | 8,835.00            | 6,428.08            | 4,985.06            | 71.09           | 31.07       | -5.88                 | 1,441.10                          | 6,075.53   | 4,907.18             | 4,853.44              | 53.74                   | 91.316            |                    |         |
| 12,000.00                                    | 8,835.00            | 6,439.02            | 4,985.12            | 72.92           | 31.21       | -5.71                 | 1,430.26                          | 6,077.03   | 4,844.64             | 4,790.68              | 53.96                   | 89.787            |                    |         |
| 12,100.00                                    | 8,835.00            | 6,450.58            | 4,985.22            | 74.76           | 31.37       | -5.54                 | 1,418.82                          | 6,078.67   | 4,783.34             | 4,729.15              | 54.20                   | 88.259            |                    |         |
| 12,200.00                                    | 8,835.00            | 6,462.82            | 4,985.35            | 76.61           | 31.54       | -5.36                 | 1,406.71                          | 6,080.45   | 4,723.34             | 4,668.88              | 54.46                   | 86.736            |                    |         |
| 12,300.00                                    | 8,835.00            | 6,475.78            | 4,985.52            | 78.47           | 31.71       | -5.17                 | 1,393.89                          | 6,082.38   | 4,664.66             | 4,609.92              | 54.74                   | 85.220            |                    |         |
| 12,400.00                                    | 8,835.00            | 6,489.55            | 4,985.74            | 80.34           | 31.90       | -4.96                 | 1,380.29                          | 6,084.50   | 4,607.36             | 4,552.33              | 55.04                   | 83.712            |                    |         |
| 12,500.00                                    | 8,835.00            | 6,528.43            | 4,986.54            | 82.22           | 32.43       | -4.39                 | 1,341.90                          | 6,090.59   | 4,551.48             | 4,495.98              | 55.50                   | 82.016            |                    |         |
| 12,600.00                                    | 8,835.00            | 12,600.00           | 4,989.70            | 84.11           | 116.54      | -2.69                 | 1,229.69                          | 6,106.33   | 4,496.64             | 4,383.15              | 113.49                  | 39.621 SF         |                    |         |
| 12,700.00                                    | 8,835.00            | 6,699.62            | 4,991.38            | 86.00           | 34.78       | -1.83                 | 1,172.31                          | 6,113.17   | 4,443.49             | 4,386.50              | 56.99                   | 77.968            |                    |         |
| 12,800.00                                    | 8,835.00            | 6,706.50            | 4,991.54            | 87.90           | 34.88       | -1.72                 | 1,165.46                          | 6,113.82   | 4,391.77             | 4,334.48              | 57.29                   | 76.661            |                    |         |
| 12,900.00                                    | 8,835.00            | 6,712.89            | 4,991.67            | 89.81           | 34.96       | -1.63                 | 1,159.09                          | 6,114.41   | 4,341.72             | 4,284.11              | 57.60                   | 75.373            |                    |         |
| 13,000.00                                    | 8,835.00            | 6,718.86            | 4,991.78            | 91.72           | 35.04       | -1.54                 | 1,153.15                          | 6,114.94   | 4,293.40             | 4,235.46              | 57.94                   | 74.105            |                    |         |
| 13,100.00                                    | 8,835.00            | 6,724.43            | 4,991.87            | 93.64           | 35.12       | -1.45                 | 1,147.60                          | 6,115.41   | 4,246.88             | 4,188.59              | 58.29                   | 72.858            |                    |         |
| 13,200.00                                    | 8,835.00            | 6,729.65            | 4,991.94            | 95.56           | 35.19       | -1.37                 | 1,142.40                          | 6,115.85   | 4,202.21             | 4,143.55              | 58.66                   | 71.634            |                    |         |
| 13,300.00                                    | 8,835.00            | 6,734.55            | 4,992.00            | 97.49           | 35.25       | -1.30                 | 1,137.52                          | 6,116.24   | 4,159.46             | 4,100.41              | 59.05                   | 70.434            |                    |         |
| 13,400.00                                    | 8,835.00            | 6,739.15            | 4,992.05            | 99.42           | 35.31       | -1.23                 | 1,132.93                          | 6,116.61   | 4,118.69             | 4,059.22              | 59.47                   | 69.260            |                    |         |
| 13,500.00                                    | 8,835.00            | 6,743.49            | 4,992.09            | 101.36          | 35.37       | -1.16                 | 1,128.61                          | 6,116.94   | 4,079.95             | 4,020.05              | 59.90                   | 68.112            |                    |         |
| 13,600.00                                    | 8,835.00            | 6,747.58            | 4,992.12            | 103.30          | 35.43       | -1.10                 | 1,124.52                          | 6,117.24   | 4,043.30             | 3,982.95              | 60.36                   | 66.991            |                    |         |
| 13,700.00                                    | 8,835.00            | 6,751.45            | 4,992.14            | 105.25          | 35.48       | -1.04                 | 1,120.67                          | 6,117.52   | 4,008.81             | 3,947.98              | 60.83                   | 65.900            |                    |         |
| 13,800.00                                    | 8,835.00            | 6,755.11            | 4,992.16            | 107.20          | 35.53       | -0.99                 | 1,117.01                          | 6,117.78   | 3,976.53             | 3,915.20              | 61.33                   | 64.838            |                    |         |
| 13,900.00                                    | 8,835.00            | 6,758.58            | 4,992.17            | 109.15          | 35.57       | -0.94                 | 1,113.55                          | 6,118.02   | 3,946.52             | 3,884.67              | 61.85                   | 63.807            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 18-GYRO-NS-CT, 4369-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 14,000.00                                    | 8,835.00            | 6,761.88            | 4,992.17            | 111.10          | 35.62       | -0.89                 | 1,110.26                          | 6,118.24   | 3,918.82             | 3,856.43              | 62.39                   | 62.807            |                    |         |
| 14,100.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 113.06          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,893.55             | 3,830.52              | 63.03                   | 61.777            |                    |         |
| 14,200.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 115.03          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,870.61             | 3,807.01              | 63.60                   | 60.855            |                    |         |
| 14,300.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 116.99          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,850.14             | 3,785.93              | 64.21                   | 59.964            |                    |         |
| 14,400.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 118.96          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,832.16             | 3,767.33              | 64.84                   | 59.103            |                    |         |
| 14,500.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 120.93          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,816.73             | 3,751.23              | 65.50                   | 58.275            |                    |         |
| 14,600.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 122.90          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,803.86             | 3,737.68              | 66.18                   | 57.479            |                    |         |
| 14,700.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 124.88          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,793.58             | 3,726.69              | 66.89                   | 56.715            |                    |         |
| 14,800.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 126.86          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,785.92             | 3,718.29              | 67.62                   | 55.985            |                    |         |
| 14,900.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 128.84          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,780.89             | 3,712.50              | 68.39                   | 55.288            |                    |         |
| 15,000.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 130.82          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,778.49             | 3,709.32              | 69.17                   | 54.626            |                    |         |
| 15,040.39                                    | 8,835.00            | 6,780.00            | 4,992.14            | 131.62          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,778.28             | 3,708.78              | 69.49                   | 54.369 CC         |                    |         |
| 15,100.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 132.80          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,778.75             | 3,708.77              | 69.98                   | 54.000 ES         |                    |         |
| 15,200.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 134.79          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,781.65             | 3,710.84              | 70.80                   | 53.410            |                    |         |
| 15,300.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 136.78          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,787.19             | 3,715.54              | 71.65                   | 52.859            |                    |         |
| 15,400.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 138.76          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,795.35             | 3,722.85              | 72.51                   | 52.346            |                    |         |
| 15,500.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 140.76          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,806.13             | 3,732.76              | 73.37                   | 51.873            |                    |         |
| 15,600.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 142.75          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,819.50             | 3,745.25              | 74.25                   | 51.442            |                    |         |
| 15,700.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 144.74          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,835.42             | 3,760.30              | 75.13                   | 51.052            |                    |         |
| 15,800.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 146.74          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,853.88             | 3,777.88              | 76.00                   | 50.706            |                    |         |
| 15,900.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 148.73          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,874.83             | 3,797.95              | 76.88                   | 50.403            |                    |         |
| 16,000.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 150.73          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,898.24             | 3,820.49              | 77.74                   | 50.143            |                    |         |
| 16,100.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 152.73          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,924.05             | 3,845.46              | 78.59                   | 49.928            |                    |         |
| 16,200.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 154.73          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,952.23             | 3,872.79              | 79.43                   | 49.756            |                    |         |
| 16,300.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 156.73          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,982.71             | 3,902.46              | 80.25                   | 49.627            |                    |         |
| 16,400.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 158.74          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 4,015.46             | 3,934.41              | 81.05                   | 49.542            |                    |         |
| 16,500.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 160.74          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 4,050.41             | 3,968.59              | 81.83                   | 49.499            |                    |         |
| 16,600.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 162.74          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 4,087.52             | 4,004.93              | 82.58                   | 49.497            |                    |         |
| 16,700.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 164.75          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 4,126.71             | 4,043.40              | 83.31                   | 49.536            |                    |         |
| 16,800.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 166.76          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 4,167.93             | 4,083.92              | 84.01                   | 49.614            |                    |         |
| 16,900.00                                    | 8,835.00            | 6,812.27            | 4,991.72            | 168.77          | 36.28       | -0.12                 | 1,059.95                          | 6,121.01   | 4,210.68             | 4,125.79              | 84.89                   | 49.601            |                    |         |
| 17,000.00                                    | 8,835.00            | 6,813.29            | 4,991.70            | 170.77          | 36.29       | -0.11                 | 1,058.93                          | 6,121.05   | 4,255.75             | 4,170.20              | 85.55                   | 49.748            |                    |         |
| 17,100.00                                    | 8,835.00            | 6,814.29            | 4,991.68            | 172.78          | 36.31       | -0.09                 | 1,057.93                          | 6,121.09   | 4,302.68             | 4,216.50              | 86.17                   | 49.930            |                    |         |
| 17,200.00                                    | 8,835.00            | 6,815.27            | 4,991.65            | 174.79          | 36.32       | -0.08                 | 1,056.96                          | 6,121.13   | 4,351.40             | 4,264.62              | 86.77                   | 50.146            |                    |         |
| 17,300.00                                    | 8,835.00            | 6,816.22            | 4,991.63            | 176.81          | 36.33       | -0.06                 | 1,056.01                          | 6,121.17   | 4,401.85             | 4,314.50              | 87.35                   | 50.396            |                    |         |
| 17,400.00                                    | 8,835.00            | 6,817.15            | 4,991.61            | 178.82          | 36.34       | -0.05                 | 1,055.08                          | 6,121.21   | 4,453.97             | 4,366.08              | 87.89                   | 50.677            |                    |         |
| 17,500.00                                    | 8,835.00            | 6,818.05            | 4,991.59            | 180.83          | 36.35       | -0.04                 | 1,054.17                          | 6,121.25   | 4,507.71             | 4,419.31              | 88.41                   | 50.989            |                    |         |
| 17,600.00                                    | 8,835.00            | 6,818.94            | 4,991.57            | 182.84          | 36.37       | -0.02                 | 1,053.29                          | 6,121.28   | 4,563.01             | 4,474.11              | 88.90                   | 51.330            |                    |         |
| 17,700.00                                    | 8,835.00            | 6,819.81            | 4,991.55            | 184.86          | 36.38       | -0.01                 | 1,052.42                          | 6,121.32   | 4,619.81             | 4,530.45              | 89.36                   | 51.699            |                    |         |
| 17,800.00                                    | 8,835.00            | 6,820.65            | 4,991.53            | 186.87          | 36.39       | 0.00                  | 1,051.58                          | 6,121.35   | 4,678.06             | 4,588.26              | 89.80                   | 52.095            |                    |         |
| 17,900.00                                    | 8,835.00            | 6,821.48            | 4,991.51            | 188.89          | 36.40       | 0.02                  | 1,050.75                          | 6,121.39   | 4,737.70             | 4,647.49              | 90.21                   | 52.517            |                    |         |
| 18,000.00                                    | 8,835.00            | 6,822.29            | 4,991.49            | 190.91          | 36.41       | 0.03                  | 1,049.94                          | 6,121.42   | 4,798.68             | 4,708.08              | 90.60                   | 52.963            |                    |         |
| 18,100.00                                    | 8,835.00            | 6,823.08            | 4,991.47            | 192.92          | 36.42       | 0.04                  | 1,049.15                          | 6,121.45   | 4,860.96             | 4,769.99              | 90.97                   | 53.432            |                    |         |
| 18,200.00                                    | 8,835.00            | 6,823.85            | 4,991.45            | 194.94          | 36.43       | 0.05                  | 1,048.38                          | 6,121.48   | 4,924.48             | 4,833.16              | 91.32                   | 53.925            |                    |         |
| 18,300.00                                    | 8,835.00            | 6,824.61            | 4,991.43            | 196.96          | 36.44       | 0.06                  | 1,047.62                          | 6,121.51   | 4,989.19             | 4,897.54              | 91.65                   | 54.438            |                    |         |
| 18,400.00                                    | 8,835.00            | 6,825.36            | 4,991.41            | 198.98          | 36.45       | 0.08                  | 1,046.88                          | 6,121.53   | 5,055.05             | 4,963.10              | 91.96                   | 54.972            |                    |         |
| 18,500.00                                    | 8,835.00            | 6,826.08            | 4,991.39            | 201.00          | 36.46       | 0.09                  | 1,046.15                          | 6,121.56   | 5,122.02             | 5,029.78              | 92.25                   | 55.525            |                    |         |
| 18,600.00                                    | 8,835.00            | 6,826.79            | 4,991.37            | 203.02          | 36.47       | 0.10                  | 1,045.44                          | 6,121.59   | 5,190.05             | 5,097.54              | 92.52                   | 56.097            |                    |         |
| 18,700.00                                    | 8,835.00            | 6,827.49            | 4,991.35            | 205.04          | 36.48       | 0.11                  | 1,044.75                          | 6,121.61   | 5,259.11             | 5,166.33              | 92.77                   | 56.687            |                    |         |
| 18,800.00                                    | 8,835.00            | 6,828.17            | 4,991.33            | 207.06          | 36.49       | 0.12                  | 1,044.06                          | 6,121.64   | 5,329.14             | 5,236.12              | 93.01                   | 57.294            |                    |         |
| 18,900.00                                    | 8,835.00            | 6,828.84            | 4,991.31            | 209.08          | 36.50       | 0.13                  | 1,043.40                          | 6,121.66   | 5,400.12             | 5,306.88              | 93.24                   | 57.917            |                    |         |
| 19,000.00                                    | 8,835.00            | 6,829.50            | 4,991.29            | 211.10          | 36.50       | 0.14                  | 1,042.74                          | 6,121.69   | 5,472.00             | 5,378.55              | 93.45                   | 58.555            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

|                               |                               |                                                                               |                               |                          |                       |                                 |                                                |                      |                                |                                 |                                   |                           |                |
|-------------------------------|-------------------------------|-------------------------------------------------------------------------------|-------------------------------|--------------------------|-----------------------|---------------------------------|------------------------------------------------|----------------------|--------------------------------|---------------------------------|-----------------------------------|---------------------------|----------------|
| <b>Offset Design</b>          |                               | Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 4H - Wellbore #2 - Wellbore #2 |                               |                          |                       |                                 |                                                |                      |                                |                                 |                                   | <b>Offset Site Error:</b> | 5.00 ft        |
| <b>Survey Program:</b>        |                               | 18-GYRO-NS-CT, 4369-MWD+HDGM                                                  |                               |                          |                       |                                 |                                                |                      |                                |                                 |                                   | <b>Offset Well Error:</b> | 0.50 ft        |
| <b>Reference</b>              |                               | <b>Offset</b>                                                                 |                               | <b>Semi Major Axis</b>   |                       |                                 | <b>Distance</b>                                |                      |                                |                                 |                                   |                           | <b>Warning</b> |
| <b>Measured Depth</b><br>(ft) | <b>Vertical Depth</b><br>(ft) | <b>Measured Depth</b><br>(ft)                                                 | <b>Vertical Depth</b><br>(ft) | <b>Reference</b><br>(ft) | <b>Offset</b><br>(ft) | <b>Highside Toolface</b><br>(°) | <b>Offset Wellbore Centre</b><br>+N/-S<br>(ft) | <b>+E/-W</b><br>(ft) | <b>Between Centres</b><br>(ft) | <b>Between Ellipses</b><br>(ft) | <b>Minimum Separation</b><br>(ft) | <b>Separation Factor</b>  |                |
| 19,100.00                     | 8,835.00                      | 6,830.14                                                                      | 4,991.28                      | 213.12                   | 36.51                 | 0.15                            | 1,042.10                                       | 6,121.71             | 5,544.75                       | 5,451.10                        | 93.65                             | 59.208                    |                |
| 19,200.00                     | 8,835.00                      | 6,830.77                                                                      | 4,991.26                      | 215.15                   | 36.52                 | 0.16                            | 1,041.47                                       | 6,121.73             | 5,618.35                       | 5,524.51                        | 93.84                             | 59.875                    |                |
| 19,308.27                     | 8,835.00                      | 6,831.44                                                                      | 4,991.24                      | 217.34                   | 36.53                 | 0.17                            | 1,040.80                                       | 6,121.75             | 5,698.93                       | 5,604.91                        | 94.02                             | 60.612                    |                |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 233-GYRO-NS-CT, 4541-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                                          | 0.00                | 0.00                | 0.00                | 0.50            | 5.02        | 67.10                 | 3,259.92                          | 7,715.55   | 8,376.32             |                       |                         |                   |                    |         |
| 100.00                                        | 100.00              | 25.83               | 25.83               | 0.52            | 5.03        | 67.10                 | 3,259.92                          | 7,715.54   | 8,375.95             | 8,370.41              | 5.54                    | 1,511.127         |                    |         |
| 200.00                                        | 200.00              | 142.19              | 142.19              | 0.70            | 5.03        | 67.09                 | 3,260.14                          | 7,715.27   | 8,375.81             | 8,370.08              | 5.73                    | 1,461.266         |                    |         |
| 300.00                                        | 300.00              | 270.45              | 270.44              | 0.99            | 5.05        | 67.09                 | 3,260.65                          | 7,714.54   | 8,375.46             | 8,369.43              | 6.04                    | 1,387.503         |                    |         |
| 400.00                                        | 400.00              | 381.38              | 381.38              | 1.31            | 5.10        | 67.09                 | 3,260.51                          | 7,713.71   | 8,374.71             | 8,368.30              | 6.41                    | 1,306.411         |                    |         |
| 500.00                                        | 500.00              | 467.82              | 467.81              | 1.65            | 5.16        | 67.09                 | 3,260.14                          | 7,713.29   | 8,374.09             | 8,367.28              | 6.81                    | 1,229.996         |                    |         |
| 600.00                                        | 600.00              | 569.26              | 569.25              | 1.99            | 5.25        | 67.09                 | 3,259.64                          | 7,712.93   | 8,373.57             | 8,366.33              | 7.25                    | 1,155.705         |                    |         |
| 700.00                                        | 700.00              | 683.61              | 683.59              | 2.34            | 5.39        | 67.09                 | 3,258.93                          | 7,712.43   | 8,372.93             | 8,365.20              | 7.72                    | 1,083.894         |                    |         |
| 800.00                                        | 800.00              | 782.25              | 782.23              | 2.69            | 5.52        | 67.10                 | 3,258.10                          | 7,712.00   | 8,372.20             | 8,363.99              | 8.21                    | 1,019.771         |                    |         |
| 900.00                                        | 900.00              | 852.93              | 852.90              | 3.04            | 5.63        | 67.10                 | 3,257.63                          | 7,711.78   | 8,371.65             | 8,362.98              | 8.67                    | 965.613           |                    |         |
| 1,000.00                                      | 1,000.00            | 963.24              | 963.22              | 3.40            | 5.81        | 67.10                 | 3,257.10                          | 7,711.57   | 8,371.30             | 8,362.09              | 9.21                    | 909.160           |                    |         |
| 1,100.00                                      | 1,100.00            | 1,050.16            | 1,050.13            | 3.75            | 5.97        | 67.10                 | 3,256.70                          | 7,711.34   | 8,370.88             | 8,361.16              | 9.72                    | 861.088           |                    |         |
| 1,200.00                                      | 1,200.00            | 1,174.21            | 1,174.18            | 4.11            | 6.21        | 67.10                 | 3,256.71                          | 7,710.58   | 8,370.29             | 8,359.97              | 10.32                   | 810.927           |                    |         |
| 1,300.00                                      | 1,300.00            | 1,240.90            | 1,240.87            | 4.46            | 6.35        | 67.10                 | 3,256.92                          | 7,710.19   | 8,369.88             | 8,359.06              | 10.82                   | 773.701           |                    |         |
| 1,400.00                                      | 1,400.00            | 1,332.05            | 1,332.02            | 4.82            | 6.55        | 67.10                 | 3,257.22                          | 7,709.90   | 8,369.71             | 8,358.34              | 11.37                   | 735.868           |                    |         |
| 1,500.00                                      | 1,500.00            | 1,431.41            | 1,431.38            | 5.18            | 6.78        | 67.10                 | 3,257.47                          | 7,709.69   | 8,369.62             | 8,357.66              | 11.96                   | 699.895           |                    |         |
| 1,600.00                                      | 1,600.00            | 1,575.78            | 1,575.74            | 5.53            | 7.13        | 67.09                 | 3,258.08                          | 7,708.83   | 8,369.22             | 8,356.56              | 12.66                   | 660.875           |                    |         |
| 1,700.00                                      | 1,700.00            | 1,662.21            | 1,662.18            | 5.89            | 7.35        | 67.09                 | 3,258.24                          | 7,708.15   | 8,368.60             | 8,355.36              | 13.24                   | 632.127           |                    |         |
| 1,800.00                                      | 1,800.00            | 1,741.58            | 1,741.55            | 6.25            | 7.55        | 67.09                 | 3,258.08                          | 7,707.95   | 8,368.27             | 8,354.47              | 13.80                   | 606.347           |                    |         |
| 1,900.00                                      | 1,900.00            | 1,830.37            | 1,830.34            | 6.61            | 7.79        | 67.09                 | 3,257.64                          | 7,707.97   | 8,368.10             | 8,353.71              | 14.39                   | 581.410           |                    |         |
| 2,000.00                                      | 2,000.00            | 1,921.00            | 1,920.96            | 6.96            | 8.03        | 67.09                 | 3,257.16                          | 7,708.14   | 8,368.07             | 8,353.07              | 14.99                   | 558.080           |                    |         |
| 2,033.73                                      | 2,033.73            | 1,952.21            | 1,952.17            | 7.08            | 8.12        | 79.88                 | 3,256.90                          | 7,708.26   | 8,368.06             | 8,352.86              | 15.20                   | 550.528           |                    |         |
| 2,100.00                                      | 2,099.99            | 2,028.20            | 2,028.16            | 7.32            | 8.33        | 79.89                 | 3,256.11                          | 7,708.61   | 8,367.94             | 8,352.29              | 15.65                   | 534.802           |                    |         |
| 2,200.00                                      | 2,199.96            | 2,098.99            | 2,098.96            | 7.68            | 8.58        | 100.98                | 347.73                            | 7,834.79   | 8,350.59             | 8,299.50              | 51.09                   | 163.440           |                    |         |
| 2,300.00                                      | 2,299.86            | 2,168.53            | 2,168.50            | 8.04            | 8.86        | 101.31                | 349.18                            | 7,834.73   | 8,317.56             | 8,265.99              | 51.56                   | 161.309           |                    |         |
| 2,400.00                                      | 2,399.68            | 2,238.07            | 2,238.04            | 8.39            | 9.19        | 101.62                | 351.19                            | 7,834.64   | 8,285.92             | 8,233.90              | 52.02                   | 159.268           |                    |         |
| 2,500.00                                      | 2,499.37            | 2,307.61            | 2,307.58            | 8.75            | 9.57        | 101.91                | 353.75                            | 7,834.52   | 8,255.71             | 8,203.23              | 52.48                   | 157.317           |                    |         |
| 2,600.00                                      | 2,598.90            | 2,377.15            | 2,377.12            | 9.11            | 9.95        | 102.18                | 356.87                            | 7,834.39   | 8,226.95             | 8,174.03              | 52.92                   | 155.453           |                    |         |
| 2,700.00                                      | 2,698.26            | 2,446.69            | 2,446.66            | 9.46            | 10.33       | 102.43                | 360.57                            | 7,834.23   | 8,199.66             | 8,146.30              | 53.36                   | 153.675           |                    |         |
| 2,800.00                                      | 2,797.40            | 2,516.23            | 2,516.20            | 9.82            | 10.69       | 102.66                | 364.84                            | 7,834.05   | 8,173.85             | 8,120.07              | 53.78                   | 151.981           |                    |         |
| 2,900.00                                      | 2,896.30            | 2,585.77            | 2,585.74            | 10.18           | 11.05       | 102.69                | 369.68                            | 7,832.91   | 8,149.68             | 8,095.82              | 53.86                   | 151.318           |                    |         |
| 3,000.00                                      | 2,994.93            | 2,655.31            | 2,655.28            | 10.54           | 11.41       | 102.92                | 374.68                            | 7,832.91   | 8,126.86             | 8,072.52              | 54.34                   | 149.566           |                    |         |
| 3,100.00                                      | 3,093.26            | 2,724.85            | 2,724.82            | 10.90           | 11.77       | 103.14                | 379.68                            | 7,832.91   | 8,103.60             | 8,049.78              | 54.81                   | 147.878           |                    |         |
| 3,195.07                                      | 3,186.42            | 2,794.39            | 2,794.36            | 11.24           | 12.13       | 103.32                | 384.68                            | 7,832.91   | 8,080.84             | 8,031.57              | 55.26                   | 146.332           |                    |         |
| 3,200.00                                      | 3,191.25            | 2,863.93            | 2,863.90            | 11.26           | 12.13       | 103.32                | 389.68                            | 7,832.91   | 8,058.90             | 8,009.61              | 55.29                   | 146.254           |                    |         |
| 3,300.00                                      | 3,289.08            | 2,933.47            | 2,933.44            | 11.62           | 12.51       | 103.32                | 394.68                            | 7,832.91   | 8,037.58             | 8,011.82              | 55.76                   | 144.686           |                    |         |
| 3,400.00                                      | 3,386.91            | 3,003.01            | 3,002.98            | 11.98           | 12.89       | 103.32                | 399.68                            | 7,832.91   | 8,016.45             | 7,991.22              | 56.23                   | 143.171           |                    |         |
| 3,500.00                                      | 3,484.74            | 3,072.55            | 3,072.52            | 12.35           | 13.27       | 103.32                | 404.68                            | 7,832.91   | 8,034.53             | 7,977.84              | 56.70                   | 141.710           |                    |         |
| 3,600.00                                      | 3,582.58            | 3,142.09            | 3,142.06            | 12.72           | 13.65       | 103.32                | 409.68                            | 7,832.91   | 8,012.61             | 7,962.67              | 57.16                   | 140.302           |                    |         |
| 3,700.00                                      | 3,680.41            | 3,211.63            | 3,211.60            | 13.09           | 14.03       | 103.32                | 414.68                            | 7,832.91   | 8,030.69             | 7,980.73              | 57.62                   | 138.947           |                    |         |
| 3,800.00                                      | 3,778.24            | 3,281.17            | 3,281.14            | 13.46           | 14.41       | 103.08                | 419.68                            | 7,831.87   | 8,048.77             | 7,998.86              | 58.08                   | 137.602           |                    |         |
| 3,900.00                                      | 3,876.08            | 3,350.71            | 3,350.68            | 13.83           | 14.79       | 103.03                | 424.68                            | 7,831.70   | 8,066.85             | 7,998.76              | 58.54                   | 136.257           |                    |         |
| 4,000.00                                      | 3,973.91            | 3,420.25            | 3,420.22            | 14.21           | 15.17       | 102.98                | 429.68                            | 7,831.54   | 8,084.93             | 7,998.66              | 59.00                   | 134.912           |                    |         |
| 4,100.00                                      | 4,071.74            | 3,489.79            | 3,489.76            | 14.58           | 15.55       | 102.93                | 434.68                            | 7,831.39   | 8,103.01             | 7,998.57              | 59.46                   | 133.567           |                    |         |
| 4,200.00                                      | 4,169.57            | 3,559.33            | 3,559.30            | 14.96           | 15.93       | 102.88                | 439.68                            | 7,831.25   | 8,121.09             | 7,998.48              | 59.92                   | 132.222           |                    |         |
| 4,300.00                                      | 4,267.41            | 3,628.87            | 3,628.84            | 15.33           | 16.31       | 102.65                | 444.68                            | 7,830.77   | 8,139.17             | 7,998.39              | 60.38                   | 130.877           |                    |         |
| 4,400.00                                      | 4,365.24            | 3,698.41            | 3,698.38            | 15.71           | 16.69       | 102.65                | 449.68                            | 7,830.77   | 8,157.25             | 7,998.30              | 60.84                   | 129.532           |                    |         |
| 4,500.00                                      | 4,463.07            | 3,767.95            | 3,767.92            | 16.09           | 17.07       | 102.65                | 454.68                            | 7,830.77   | 8,175.33             | 7,998.21              | 61.30                   | 128.187           |                    |         |
| 4,600.00                                      | 4,560.90            | 3,837.49            | 3,837.46            | 16.47           | 17.45       | 102.65                | 459.68                            | 7,830.77   | 8,193.41             | 7,998.12              | 61.76                   | 126.842           |                    |         |
| 4,700.00                                      | 4,658.74            | 3,906.93            | 3,906.90            | 16.85           | 17.83       | 102.65                | 464.68                            | 7,830.77   | 8,211.49             | 7,998.03              | 62.22                   | 125.497           |                    |         |
| 4,753.88                                      | 4,711.44            | 3,976.47            | 3,976.44            | 17.05           | 18.03       | 102.56                | 503.28                            | 7,830.64   | 8,229.57             | 7,997.94              | 62.68                   | 124.152           |                    |         |
| 4,800.00                                      | 4,756.57            | 4,045.91            | 4,045.88            | 17.23           | 18.23       | 102.51                | 510.08                            | 7,830.58   | 8,247.65             | 7,997.85              | 63.14                   | 122.807           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |         | Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 5H - Wellbore #1 - Wellbore #1 |         | Offset Site Error: 5.00 ft |  |
|-----------------------------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|---------|-------------------------------------------------------------------------------|---------|----------------------------|--|
| Survey Program: 233-GYRO-NS-CT, 4541-MWD+HDGM |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |         | Offset Well Error: 0.50 ft                                                    |         |                            |  |
| Reference                                     |                | Offset         |                | Semi Major Axis |        |                   | Distance               |                 |                  |                    |                   |         |                                                                               | Warning |                            |  |
| Measured Depth                                | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor |         |                                                                               |         |                            |  |
| (ft)                                          | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft)      | (ft)             | (ft)               | (ft)              |         |                                                                               |         |                            |  |
| 4,900.00                                      | 4,854.40       | 7,532.91       | 4,991.40       | 17.61           | 43.44  | 102.41            | 524.72                 | 7,830.45        | 7,939.14         | 7,878.15           | 60.99             | 130.173 |                                                                               |         |                            |  |
| 5,000.00                                      | 4,952.23       | 7,518.39       | 4,991.66       | 17.99           | 43.25  | 102.30            | 539.24                 | 7,830.34        | 7,941.53         | 7,880.35           | 61.18             | 129.804 |                                                                               |         |                            |  |
| 5,100.00                                      | 5,050.07       | 7,503.99       | 4,991.91       | 18.37           | 43.05  | 102.20            | 553.63                 | 7,830.25        | 7,945.14         | 7,883.77           | 61.37             | 129.468 |                                                                               |         |                            |  |
| 5,200.00                                      | 5,147.90       | 7,489.72       | 4,992.14       | 18.75           | 42.86  | 102.10            | 567.91                 | 7,830.17        | 7,949.97         | 7,888.42           | 61.55             | 129.166 |                                                                               |         |                            |  |
| 5,300.00                                      | 5,245.73       | 7,481.12       | 4,992.27       | 19.14           | 42.74  | 102.04            | 576.50                 | 7,830.12        | 7,956.01         | 7,894.21           | 61.80             | 128.743 |                                                                               |         |                            |  |
| 5,400.00                                      | 5,343.56       | 7,437.23       | 4,992.86       | 19.52           | 42.15  | 101.73            | 620.38                 | 7,829.91        | 7,963.23         | 7,901.66           | 61.57             | 129.333 |                                                                               |         |                            |  |
| 5,500.00                                      | 5,441.40       | 7,083.09       | 4,990.48       | 19.90           | 37.37  | 99.23             | 974.33                 | 7,820.00        | 7,971.23         | 7,914.05           | 57.18             | 139.394 |                                                                               |         |                            |  |
| 5,600.00                                      | 5,539.23       | 7,068.69       | 4,990.17       | 20.29           | 37.18  | 99.12             | 988.71                 | 7,819.29        | 7,980.00         | 7,922.66           | 57.34             | 139.166 |                                                                               |         |                            |  |
| 5,700.00                                      | 5,637.06       | 7,054.40       | 4,989.85       | 20.67           | 36.99  | 99.02             | 1,002.98               | 7,818.59        | 7,989.99         | 7,932.49           | 57.49             | 138.973 |                                                                               |         |                            |  |
| 5,800.00                                      | 5,734.90       | 7,040.22       | 4,989.52       | 21.05           | 36.80  | 98.92             | 1,017.14               | 7,817.90        | 8,001.17         | 7,943.53           | 57.64             | 138.815 |                                                                               |         |                            |  |
| 5,900.00                                      | 5,832.73       | 5,900.00       | 4,987.56       | 21.44           | 21.67  | 98.35             | 1,097.29               | 7,813.72        | 8,013.52         | 7,970.62           | 42.89             | 186.821 |                                                                               |         |                            |  |
| 6,000.00                                      | 5,930.56       | 6,000.00       | 4,987.12       | 21.83           | 22.99  | 98.23             | 1,115.27               | 7,812.71        | 8,026.95         | 7,982.41           | 44.54             | 180.234 |                                                                               |         |                            |  |
| 6,100.00                                      | 6,028.39       | 6,863.32       | 4,985.18       | 22.21           | 34.44  | 97.67             | 1,193.70               | 7,807.93        | 8,041.43         | 7,985.17           | 56.26             | 142.939 |                                                                               |         |                            |  |
| 6,200.00                                      | 6,126.23       | 6,849.72       | 4,984.82       | 22.60           | 34.26  | 97.57             | 1,207.26               | 7,807.06        | 8,057.08         | 8,000.69           | 56.39             | 142.884 |                                                                               |         |                            |  |
| 6,300.00                                      | 6,224.06       | 6,836.22       | 4,984.46       | 22.98           | 34.08  | 97.48             | 1,220.73               | 7,806.21        | 8,073.92         | 8,017.40           | 56.52             | 142.863 |                                                                               |         |                            |  |
| 6,400.00                                      | 6,321.89       | 6,822.83       | 4,984.09       | 23.37           | 33.90  | 97.38             | 1,234.10               | 7,805.37        | 8,091.92         | 8,035.29           | 56.64             | 142.876 |                                                                               |         |                            |  |
| 6,500.00                                      | 6,419.72       | 6,807.48       | 4,983.66       | 23.76           | 33.70  | 97.27             | 1,249.41               | 7,804.41        | 8,111.09         | 8,054.36           | 56.73             | 142.988 |                                                                               |         |                            |  |
| 6,600.00                                      | 6,517.56       | 6,773.57       | 4,982.92       | 24.14           | 33.25  | 97.03             | 1,283.24               | 7,802.30        | 8,131.39         | 8,074.82           | 56.57             | 143.739 |                                                                               |         |                            |  |
| 6,700.00                                      | 6,615.39       | 6,735.24       | 4,982.54       | 24.53           | 32.75  | 96.76             | 1,321.49               | 7,799.91        | 8,152.78         | 8,096.42           | 56.35             | 144.672 |                                                                               |         |                            |  |
| 6,800.00                                      | 6,713.22       | 6,717.00       | 4,982.53       | 24.92           | 32.51  | 96.63             | 1,339.70               | 7,798.78        | 8,175.25         | 8,118.86           | 56.39             | 144.975 |                                                                               |         |                            |  |
| 6,900.00                                      | 6,811.05       | 6,717.00       | 4,982.53       | 25.30           | 32.51  | 96.63             | 1,339.70               | 7,798.78        | 8,198.88         | 8,142.22           | 56.66             | 144.711 |                                                                               |         |                            |  |
| 7,000.00                                      | 6,908.89       | 6,717.00       | 4,982.53       | 25.69           | 32.51  | 96.63             | 1,339.70               | 7,798.78        | 8,223.65         | 8,166.73           | 56.92             | 144.487 |                                                                               |         |                            |  |
| 7,100.00                                      | 7,006.72       | 6,689.09       | 4,982.57       | 26.08           | 32.15  | 96.44             | 1,367.56               | 7,797.11        | 8,249.43         | 8,192.61           | 56.82             | 145.190 |                                                                               |         |                            |  |
| 7,200.00                                      | 7,104.55       | 6,681.33       | 4,982.58       | 26.47           | 32.05  | 96.38             | 1,375.31               | 7,796.68        | 8,276.39         | 8,219.42           | 56.97             | 145.281 |                                                                               |         |                            |  |
| 7,216.87                                      | 7,121.05       | 6,680.02       | 4,982.58       | 26.53           | 32.03  | 96.37             | 1,376.61               | 7,796.61        | 8,281.04         | 8,224.05           | 56.99             | 145.300 |                                                                               |         |                            |  |
| 7,300.00                                      | 7,202.57       | 6,673.93       | 4,982.58       | 26.85           | 31.96  | 96.69             | 1,382.69               | 7,796.27        | 8,304.35         | 8,247.23           | 57.11             | 145.398 |                                                                               |         |                            |  |
| 7,400.00                                      | 7,301.06       | 6,667.51       | 4,982.58       | 27.23           | 31.87  | 97.09             | 1,389.11               | 7,795.93        | 8,333.11         | 8,275.85           | 57.26             | 145.526 |                                                                               |         |                            |  |
| 7,500.00                                      | 7,399.97       | 6,662.07       | 4,982.58       | 27.61           | 31.80  | 97.52             | 1,394.54               | 7,795.65        | 8,362.65         | 8,305.24           | 57.41             | 145.665 |                                                                               |         |                            |  |
| 7,600.00                                      | 7,499.23       | 6,657.61       | 4,982.58       | 27.98           | 31.74  | 97.96             | 1,399.00               | 7,795.42        | 8,392.94         | 8,335.38           | 57.56             | 145.815 |                                                                               |         |                            |  |
| 7,700.00                                      | 7,598.77       | 6,654.12       | 4,982.58       | 28.34           | 31.70  | 98.42             | 1,402.48               | 7,795.24        | 8,423.96         | 8,366.25           | 57.71             | 145.976 |                                                                               |         |                            |  |
| 7,800.00                                      | 7,698.53       | 6,651.61       | 4,982.57       | 28.70           | 31.67  | 98.89             | 1,404.99               | 7,795.12        | 8,455.69         | 8,397.83           | 57.86             | 146.146 |                                                                               |         |                            |  |
| 7,900.00                                      | 7,798.44       | 6,650.07       | 4,982.57       | 29.05           | 31.65  | 99.39             | 1,406.53               | 7,795.04        | 8,488.09         | 8,430.08           | 58.01             | 146.325 |                                                                               |         |                            |  |
| 8,000.00                                      | 7,898.42       | 6,649.49       | 4,982.57       | 29.39           | 31.64  | 99.90             | 1,407.10               | 7,795.01        | 8,521.14         | 8,462.98           | 58.16             | 146.512 |                                                                               |         |                            |  |
| 8,013.58                                      | 7,912.00       | 6,649.49       | 4,982.57       | 29.43           | 31.64  | 87.20             | 1,407.11               | 7,795.01        | 8,525.67         | 8,467.49           | 58.18             | 146.538 |                                                                               |         |                            |  |
| 8,100.00                                      | 7,998.42       | 6,649.52       | 4,982.57       | 29.73           | 31.64  | 87.20             | 1,407.07               | 7,795.01        | 8,554.97         | 8,496.66           | 58.31             | 146.713 |                                                                               |         |                            |  |
| 8,200.00                                      | 8,098.42       | 6,649.56       | 4,982.57       | 30.07           | 31.64  | 87.20             | 1,407.04               | 7,795.02        | 8,589.83         | 8,531.37           | 58.46             | 146.941 |                                                                               |         |                            |  |
| 8,300.00                                      | 8,198.42       | 6,649.59       | 4,982.57       | 30.41           | 31.64  | 87.20             | 1,407.00               | 7,795.02        | 8,625.70         | 8,567.10           | 58.60             | 147.195 |                                                                               |         |                            |  |
| 8,363.62                                      | 8,262.04       | 6,649.61       | 4,982.57       | 30.62           | 31.64  | 87.20             | 1,406.98               | 7,795.02        | 8,649.05         | 8,590.36           | 58.69             | 147.371 |                                                                               |         |                            |  |
| 8,400.00                                      | 8,298.40       | 6,649.64       | 4,982.57       | 30.75           | 31.64  | -2.41             | 1,406.95               | 7,795.02        | 8,661.50         | 8,602.77           | 58.73             | 147.469 |                                                                               |         |                            |  |
| 8,450.00                                      | 8,348.10       | 6,649.75       | 4,982.57       | 30.91           | 31.64  | -2.35             | 1,406.85               | 7,795.02        | 8,675.26         | 8,616.47           | 58.79             | 147.563 |                                                                               |         |                            |  |
| 8,500.00                                      | 8,397.14       | 6,649.92       | 4,982.57       | 31.07           | 31.65  | -2.30             | 1,406.68               | 7,795.03        | 8,685.06         | 8,626.22           | 58.84             | 147.598 |                                                                               |         |                            |  |
| 8,550.00                                      | 8,445.15       | 6,650.16       | 4,982.57       | 31.23           | 31.65  | -2.28             | 1,406.44               | 7,795.05        | 8,690.83         | 8,631.94           | 58.89             | 147.575 |                                                                               |         |                            |  |
| 8,600.00                                      | 8,491.77       | 6,650.46       | 4,982.57       | 31.38           | 31.65  | -2.27             | 1,406.13               | 7,795.06        | 8,692.55         | 8,633.61           | 58.93             | 147.497 |                                                                               |         |                            |  |
| 8,650.00                                      | 8,536.65       | 6,650.83       | 4,982.57       | 31.52           | 31.66  | -2.28             | 1,405.76               | 7,795.08        | 8,690.19         | 8,631.22           | 58.97             | 147.366 |                                                                               |         |                            |  |
| 8,700.00                                      | 8,579.43       | 6,651.27       | 4,982.57       | 31.66           | 31.66  | -2.30             | 1,405.33               | 7,795.10        | 8,683.78         | 8,624.78           | 59.00             | 147.184 |                                                                               |         |                            |  |
| 8,750.00                                      | 8,619.80       | 6,651.76       | 4,982.57       | 31.80           | 31.67  | -2.34             | 1,404.84               | 7,795.12        | 8,673.35         | 8,614.33           | 59.02             | 146.952 |                                                                               |         |                            |  |
| 8,800.00                                      | 8,657.44       | 6,652.30       | 4,982.58       | 31.93           | 31.68  | -2.40             | 1,404.30               | 7,795.15        | 8,658.97         | 8,599.94           | 59.04             | 146.673 |                                                                               |         |                            |  |
| 8,850.00                                      | 8,692.08       | 6,652.90       | 4,982.58       | 32.06           | 31.68  | -2.48             | 1,403.70               | 7,795.18        | 8,640.74         | 8,581.69           | 59.04             | 146.348 |                                                                               |         |                            |  |
| 8,900.00                                      | 8,723.44       | 6,653.55       | 4,982.58       | 32.19           | 31.69  | -2.58             | 1,403.05               | 7,795.21        | 8,618.75         | 8,559.71           | 59.04             | 145.979 |                                                                               |         |                            |  |
| 8,950.00                                      | 8,751.29       | 6,654.24       | 4,982.58       | 32.34           | 31.70  | -2.71             | 1,402.36               | 7,795.25        | 8,593.16         | 8,534.13           | 59.03             | 145.567 |                                                                               |         |                            |  |
| 9,000.00                                      | 8,775.42       | 6,654.97       | 4,982.58       | 32.50           | 31.71  | -2.88             | 1,401.63               | 7,795.29        | 8,564.13         | 8,505.11           | 59.02             | 145.113 |                                                                               |         |                            |  |
| 9,050.00                                      | 8,795.64       | 6,655.74       | 4,982.58       | 32.67           | 31.72  | -3.10             | 1,400.86               | 7,795.32        | 8,531.84         | 8,472.84           | 59.00             | 144.619 |                                                                               |         |                            |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 233-GYRO-NS-CT, 4541-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,100.00                                      | 8,811.80            | 6,656.54            | 4,982.58            | 32.87           | 31.73       | -3.37                 | 1,400.06                          | 7,795.36   | 8,496.50             | 8,437.53              | 58.97                   | 144.086           |                    |         |
| 9,150.00                                      | 8,823.77            | 6,657.36            | 4,982.58            | 33.10           | 31.74       | -3.73                 | 1,399.24                          | 7,795.41   | 8,458.35             | 8,399.41              | 58.94                   | 143.516           |                    |         |
| 9,200.00                                      | 8,831.47            | 6,658.21            | 4,982.58            | 33.34           | 31.75       | -4.20                 | 1,398.40                          | 7,795.45   | 8,417.64             | 8,358.74              | 58.90                   | 142.909           |                    |         |
| 9,250.00                                      | 8,834.84            | 6,659.06            | 4,982.58            | 33.60           | 31.76       | -4.86                 | 1,397.54                          | 7,795.49   | 8,374.64             | 8,315.78              | 58.87                   | 142.267           |                    |         |
| 9,263.62                                      | 8,835.00            | 6,659.30            | 4,982.58            | 33.67           | 31.77       | -5.08                 | 1,397.31                          | 7,795.50   | 8,362.57             | 8,303.72              | 58.86                   | 142.081           |                    |         |
| 9,300.00                                      | 8,835.00            | 6,659.93            | 4,982.58            | 33.88           | 31.77       | -5.07                 | 1,396.68                          | 7,795.54   | 8,330.16             | 8,271.33              | 58.83                   | 141.604           |                    |         |
| 9,400.00                                      | 8,835.00            | 6,661.68            | 4,982.58            | 34.53           | 31.80       | -5.04                 | 1,394.93                          | 7,795.63   | 8,241.23             | 8,182.49              | 58.74                   | 140.296           |                    |         |
| 9,500.00                                      | 8,835.00            | 6,663.45            | 4,982.58            | 35.30           | 31.82       | -5.02                 | 1,393.16                          | 7,795.72   | 8,152.56             | 8,093.90              | 58.66                   | 138.981           |                    |         |
| 9,600.00                                      | 8,835.00            | 6,665.25            | 4,982.58            | 36.17           | 31.84       | -4.99                 | 1,391.37                          | 7,795.81   | 8,064.15             | 8,005.57              | 58.58                   | 137.659           |                    |         |
| 9,700.00                                      | 8,835.00            | 6,667.08            | 4,982.58            | 37.13           | 31.87       | -4.96                 | 1,389.54                          | 7,795.91   | 7,976.01             | 7,917.51              | 58.51                   | 136.329           |                    |         |
| 9,800.00                                      | 8,835.00            | 6,668.93            | 4,982.58            | 38.18           | 31.89       | -4.93                 | 1,387.69                          | 7,796.01   | 7,888.16             | 7,829.72              | 58.43                   | 134.992           |                    |         |
| 9,900.00                                      | 8,835.00            | 6,670.82            | 4,982.58            | 39.31           | 31.91       | -4.91                 | 1,385.80                          | 7,796.11   | 7,800.59             | 7,742.23              | 58.37                   | 133.647           |                    |         |
| 10,000.00                                     | 8,835.00            | 6,672.73            | 4,982.58            | 40.51           | 31.94       | -4.88                 | 1,383.89                          | 7,796.21   | 7,713.33             | 7,655.03              | 58.30                   | 132.294           |                    |         |
| 10,100.00                                     | 8,835.00            | 6,674.68            | 4,982.58            | 41.78           | 31.96       | -4.85                 | 1,381.95                          | 7,796.31   | 7,626.38             | 7,568.14              | 58.25                   | 130.933           |                    |         |
| 10,200.00                                     | 8,835.00            | 6,676.65            | 4,982.58            | 43.10           | 31.99       | -4.82                 | 1,379.98                          | 7,796.42   | 7,539.75             | 7,481.56              | 58.19                   | 129.563           |                    |         |
| 10,300.00                                     | 8,835.00            | 6,678.66            | 4,982.58            | 44.49           | 32.02       | -4.79                 | 1,377.98                          | 7,796.53   | 7,453.46             | 7,395.31              | 58.15                   | 128.185           |                    |         |
| 10,400.00                                     | 8,835.00            | 6,680.69            | 4,982.58            | 45.92           | 32.04       | -4.76                 | 1,375.94                          | 7,796.64   | 7,367.51             | 7,309.40              | 58.10                   | 126.797           |                    |         |
| 10,500.00                                     | 8,835.00            | 6,682.77            | 4,982.58            | 47.39           | 32.07       | -4.73                 | 1,373.88                          | 7,796.76   | 7,281.92             | 7,223.85              | 58.07                   | 125.400           |                    |         |
| 10,600.00                                     | 8,835.00            | 6,684.87            | 4,982.58            | 48.91           | 32.10       | -4.69                 | 1,371.77                          | 7,796.88   | 7,196.70             | 7,138.65              | 58.04                   | 123.994           |                    |         |
| 10,700.00                                     | 8,835.00            | 6,687.01            | 4,982.57            | 50.47           | 32.12       | -4.66                 | 1,369.64                          | 7,797.00   | 7,111.86             | 7,053.84              | 58.02                   | 122.578           |                    |         |
| 10,800.00                                     | 8,835.00            | 6,689.19            | 4,982.57            | 52.06           | 32.15       | -4.63                 | 1,367.47                          | 7,797.12   | 7,027.42             | 6,969.41              | 58.00                   | 121.152           |                    |         |
| 10,900.00                                     | 8,835.00            | 6,691.40            | 4,982.57            | 53.68           | 32.18       | -4.60                 | 1,365.26                          | 7,797.25   | 6,943.39             | 6,885.39              | 58.00                   | 119.717           |                    |         |
| 11,000.00                                     | 8,835.00            | 6,693.65            | 4,982.57            | 55.32           | 32.21       | -4.56                 | 1,363.01                          | 7,797.38   | 6,859.78             | 6,801.78              | 58.00                   | 118.271           |                    |         |
| 11,100.00                                     | 8,835.00            | 6,717.00            | 4,982.53            | 57.00           | 32.51       | -4.21                 | 1,339.70                          | 7,798.78   | 6,776.70             | 6,718.47              | 58.23                   | 116.377           |                    |         |
| 11,200.00                                     | 8,835.00            | 6,717.00            | 4,982.53            | 58.70           | 32.51       | -4.21                 | 1,339.70                          | 7,798.78   | 6,693.98             | 6,635.76              | 58.22                   | 114.968           |                    |         |
| 11,300.00                                     | 8,835.00            | 6,717.00            | 4,982.53            | 60.41           | 32.51       | -4.21                 | 1,339.70                          | 7,798.78   | 6,611.74             | 6,553.51              | 58.23                   | 113.548           |                    |         |
| 11,400.00                                     | 8,835.00            | 6,717.00            | 4,982.53            | 62.15           | 32.51       | -4.21                 | 1,339.70                          | 7,798.78   | 6,530.00             | 6,471.76              | 58.24                   | 112.117           |                    |         |
| 11,500.00                                     | 8,835.00            | 6,717.00            | 4,982.53            | 63.91           | 32.51       | -4.21                 | 1,339.70                          | 7,798.78   | 6,448.77             | 6,390.50              | 58.27                   | 110.675           |                    |         |
| 11,600.00                                     | 8,835.00            | 11,600.00           | 4,983.03            | 65.69           | 97.02       | -3.63                 | 1,301.38                          | 7,801.17   | 6,367.96             | 6,253.78              | 114.18                  | 55.771            |                    |         |
| 11,700.00                                     | 8,835.00            | 11,700.00           | 4,983.10            | 67.47           | 98.35       | -3.55                 | 1,295.76                          | 7,801.52   | 6,287.78             | 6,172.66              | 115.12                  | 54.618            |                    |         |
| 11,800.00                                     | 8,835.00            | 11,800.00           | 4,983.18            | 69.28           | 99.67       | -3.46                 | 1,290.14                          | 7,801.87   | 6,208.17             | 6,092.12              | 116.06                  | 53.491            |                    |         |
| 11,900.00                                     | 8,835.00            | 11,900.00           | 4,983.25            | 71.09           | 101.00      | -3.38                 | 1,284.52                          | 7,802.22   | 6,129.16             | 6,012.17              | 116.99                  | 52.391            |                    |         |
| 12,000.00                                     | 8,835.00            | 12,000.00           | 4,983.33            | 72.92           | 102.32      | -3.29                 | 1,278.90                          | 7,802.57   | 6,050.76             | 5,932.85              | 117.91                  | 51.317            |                    |         |
| 12,100.00                                     | 8,835.00            | 12,100.00           | 4,983.40            | 74.76           | 103.65      | -3.21                 | 1,273.28                          | 7,802.92   | 5,973.00             | 5,854.18              | 118.82                  | 50.269            |                    |         |
| 12,200.00                                     | 8,835.00            | 6,838.04            | 4,984.51            | 76.61           | 34.10       | -2.38                 | 1,218.92                          | 7,806.32   | 5,895.86             | 5,835.93              | 59.93                   | 98.382            |                    |         |
| 12,300.00                                     | 8,835.00            | 6,842.33            | 4,984.63            | 78.47           | 34.16       | -2.32                 | 1,214.64                          | 7,806.60   | 5,819.41             | 5,759.33              | 60.08                   | 96.855            |                    |         |
| 12,400.00                                     | 8,835.00            | 6,846.64            | 4,984.74            | 80.34           | 34.21       | -2.25                 | 1,210.34                          | 7,806.87   | 5,743.68             | 5,683.43              | 60.25                   | 95.326            |                    |         |
| 12,500.00                                     | 8,835.00            | 6,850.97            | 4,984.86            | 82.22           | 34.27       | -2.19                 | 1,206.02                          | 7,807.14   | 5,668.70             | 5,608.26              | 60.44                   | 93.794            |                    |         |
| 12,600.00                                     | 8,835.00            | 6,855.32            | 4,984.97            | 84.11           | 34.33       | -2.12                 | 1,201.68                          | 7,807.42   | 5,594.49             | 5,533.86              | 60.64                   | 92.261            |                    |         |
| 12,700.00                                     | 8,835.00            | 6,859.70            | 4,985.09            | 86.00           | 34.39       | -2.06                 | 1,197.31                          | 7,807.70   | 5,521.10             | 5,460.24              | 60.85                   | 90.727            |                    |         |
| 12,800.00                                     | 8,835.00            | 6,864.09            | 4,985.20            | 87.90           | 34.45       | -1.99                 | 1,192.93                          | 7,807.98   | 5,448.54             | 5,387.46              | 61.09                   | 89.194            |                    |         |
| 12,900.00                                     | 8,835.00            | 6,868.51            | 4,985.31            | 89.81           | 34.50       | -1.92                 | 1,188.52                          | 7,808.26   | 5,376.87             | 5,315.53              | 61.34                   | 87.663            |                    |         |
| 13,000.00                                     | 8,835.00            | 6,872.95            | 4,985.43            | 91.72           | 34.56       | -1.86                 | 1,184.09                          | 7,808.55   | 5,306.10             | 5,244.50              | 61.60                   | 86.135            |                    |         |
| 13,100.00                                     | 8,835.00            | 6,877.42            | 4,985.54            | 93.64           | 34.62       | -1.79                 | 1,179.63                          | 7,808.84   | 5,236.28             | 5,174.40              | 61.89                   | 84.611            |                    |         |
| 13,200.00                                     | 8,835.00            | 6,881.90            | 4,985.65            | 95.56           | 34.68       | -1.72                 | 1,175.16                          | 7,809.13   | 5,167.45             | 5,105.26              | 62.19                   | 83.093            |                    |         |
| 13,300.00                                     | 8,835.00            | 6,886.41            | 4,985.76            | 97.49           | 34.74       | -1.65                 | 1,170.66                          | 7,809.42   | 5,099.65             | 5,037.14              | 62.51                   | 81.583            |                    |         |
| 13,400.00                                     | 8,835.00            | 6,890.94            | 4,985.87            | 99.42           | 34.80       | -1.58                 | 1,166.14                          | 7,809.71   | 5,032.91             | 4,970.07              | 62.85                   | 80.082            |                    |         |
| 13,500.00                                     | 8,835.00            | 6,895.50            | 4,985.99            | 101.36          | 34.86       | -1.51                 | 1,161.60                          | 7,810.01   | 4,967.29             | 4,904.09              | 63.20                   | 78.591            |                    |         |
| 13,600.00                                     | 8,835.00            | 6,900.08            | 4,986.10            | 103.30          | 34.92       | -1.44                 | 1,157.03                          | 7,810.31   | 4,902.82             | 4,839.24              | 63.58                   | 77.113            |                    |         |
| 13,700.00                                     | 8,835.00            | 6,906.00            | 4,986.24            | 105.25          | 35.00       | -1.36                 | 1,151.12                          | 7,810.69   | 4,839.56             | 4,775.57              | 63.98                   | 75.637            |                    |         |
| 13,800.00                                     | 8,835.00            | 6,917.62            | 4,986.51            | 107.20          | 35.16       | -1.18                 | 1,139.53                          | 7,811.44   | 4,777.54             | 4,713.09              | 64.45                   | 74.128            |                    |         |
| 13,900.00                                     | 8,835.00            | 6,932.48            | 4,986.87            | 109.15          | 35.35       | -0.95                 | 1,124.70                          | 7,812.35   | 4,716.80             | 4,651.85              | 64.96                   | 72.615            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design      Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 5H - Wellbore #1 - Wellbore #1 |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |           | Offset Site Error:      5.00 ft |         |
|--------------------------------------------------------------------------------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|-----------|---------------------------------|---------|
| Survey Program:      233-GYRO-NS-CT, 4541-MWD+HDGM                                               |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |           | Offset Well Error:      0.50 ft |         |
| Reference                                                                                        |                | Offset         |                | Semi Major Axis |        |                   | Distance               |                 |                  |                    |                   |           |                                 | Warning |
| Measured Depth                                                                                   | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor |           |                                 |         |
| (ft)                                                                                             | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft)      | (ft)             | (ft)               | (ft)              |           |                                 |         |
| 14,000.00                                                                                        | 8,835.00       | 6,945.90       | 4,987.20       | 111.10          | 35.53  | -0.75             | 1,111.30               | 7,813.15        | 4,657.41         | 4,591.94           | 65.47             | 71.139    |                                 |         |
| 14,100.00                                                                                        | 8,835.00       | 6,958.10       | 4,987.50       | 113.06          | 35.70  | -0.57             | 1,099.13               | 7,813.83        | 4,599.40         | 4,533.42           | 65.99             | 69.699    |                                 |         |
| 14,200.00                                                                                        | 8,835.00       | 6,969.22       | 4,987.77       | 115.03          | 35.85  | -0.40             | 1,088.03               | 7,814.44        | 4,542.85         | 4,476.33           | 66.52             | 68.294    |                                 |         |
| 14,300.00                                                                                        | 8,835.00       | 6,979.41       | 4,988.02       | 116.99          | 35.98  | -0.24             | 1,077.86               | 7,814.97        | 4,487.80         | 4,420.74           | 67.06             | 66.923    |                                 |         |
| 14,400.00                                                                                        | 8,835.00       | 6,988.77       | 4,988.26       | 118.96          | 36.11  | -0.10             | 1,068.51               | 7,815.44        | 4,434.32         | 4,366.71           | 67.61             | 65.587    |                                 |         |
| 14,500.00                                                                                        | 8,835.00       | 6,997.41       | 4,988.48       | 120.93          | 36.22  | 0.03              | 1,059.89               | 7,815.86        | 4,382.45         | 4,314.28           | 68.17             | 64.285    |                                 |         |
| 14,600.00                                                                                        | 8,835.00       | 7,005.40       | 4,988.68       | 122.90          | 36.33  | 0.15              | 1,051.91               | 7,816.23        | 4,332.26         | 4,263.52           | 68.75             | 63.018    |                                 |         |
| 14,700.00                                                                                        | 8,835.00       | 7,012.82       | 4,988.87       | 124.88          | 36.43  | 0.27              | 1,044.50               | 7,816.57        | 4,283.82         | 4,214.48           | 69.33             | 61.787    |                                 |         |
| 14,800.00                                                                                        | 8,835.00       | 7,008.90       | 4,988.77       | 126.86          | 36.38  | 0.21              | 1,048.41               | 7,816.40        | 4,237.18         | 4,167.33           | 69.86             | 60.656    |                                 |         |
| 14,900.00                                                                                        | 8,835.00       | 7,012.25       | 4,988.85       | 128.84          | 36.42  | 0.26              | 1,045.07               | 7,816.56        | 4,192.41         | 4,121.96           | 70.45             | 59.512    |                                 |         |
| 15,000.00                                                                                        | 8,835.00       | 7,015.61       | 4,988.93       | 130.82          | 36.47  | 0.31              | 1,041.71               | 7,816.72        | 4,149.56         | 4,078.50           | 71.05             | 58.401    |                                 |         |
| 15,100.00                                                                                        | 8,835.00       | 7,019.00       | 4,989.01       | 132.80          | 36.51  | 0.36              | 1,038.33               | 7,816.88        | 4,108.69         | 4,037.01           | 71.67             | 57.324    |                                 |         |
| 15,200.00                                                                                        | 8,835.00       | 7,022.39       | 4,989.10       | 134.79          | 36.56  | 0.41              | 1,034.94               | 7,817.04        | 4,069.86         | 3,997.55           | 72.31             | 56.282    |                                 |         |
| 15,300.00                                                                                        | 8,835.00       | 7,025.81       | 4,989.18       | 136.78          | 36.60  | 0.46              | 1,031.53               | 7,817.20        | 4,033.14         | 3,960.18           | 72.96             | 55.276    |                                 |         |
| 15,400.00                                                                                        | 8,835.00       | 7,029.24       | 4,989.26       | 138.76          | 36.65  | 0.51              | 1,028.10               | 7,817.37        | 3,998.58         | 3,924.95           | 73.63             | 54.306    |                                 |         |
| 15,500.00                                                                                        | 8,835.00       | 7,032.69       | 4,989.34       | 140.76          | 36.69  | 0.57              | 1,024.65               | 7,817.53        | 3,966.24         | 3,891.93           | 74.31             | 53.373    |                                 |         |
| 15,600.00                                                                                        | 8,835.00       | 7,036.16       | 4,989.43       | 142.75          | 36.74  | 0.62              | 1,021.19               | 7,817.70        | 3,936.17         | 3,861.16           | 75.01             | 52.477    |                                 |         |
| 15,700.00                                                                                        | 8,835.00       | 7,039.65       | 4,989.51       | 144.74          | 36.79  | 0.67              | 1,017.71               | 7,817.87        | 3,908.42         | 3,832.70           | 75.72             | 51.618    |                                 |         |
| 15,800.00                                                                                        | 8,835.00       | 7,043.15       | 4,989.59       | 146.74          | 36.83  | 0.73              | 1,014.21               | 7,818.04        | 3,883.05         | 3,806.61           | 76.44             | 50.797    |                                 |         |
| 15,900.00                                                                                        | 8,835.00       | 7,046.68       | 4,989.67       | 148.73          | 36.88  | 0.78              | 1,010.69               | 7,818.21        | 3,860.09         | 3,782.91           | 77.18             | 50.014    |                                 |         |
| 16,000.00                                                                                        | 8,835.00       | 7,050.22       | 4,989.75       | 150.73          | 36.93  | 0.83              | 1,007.15               | 7,818.38        | 3,839.61         | 3,761.67           | 77.93             | 49.268    |                                 |         |
| 16,100.00                                                                                        | 8,835.00       | 7,053.78       | 4,989.83       | 152.73          | 36.98  | 0.89              | 1,003.60               | 7,818.56        | 3,821.62         | 3,742.92           | 78.70             | 48.559    |                                 |         |
| 16,200.00                                                                                        | 8,835.00       | 7,057.36       | 4,989.91       | 154.73          | 37.03  | 0.94              | 1,000.03               | 7,818.73        | 3,806.17         | 3,726.69           | 79.48             | 47.887    |                                 |         |
| 16,300.00                                                                                        | 8,835.00       | 7,060.95       | 4,990.00       | 156.73          | 37.07  | 1.00              | 996.43                 | 7,818.91        | 3,793.30         | 3,713.02           | 80.28             | 47.252    |                                 |         |
| 16,400.00                                                                                        | 8,835.00       | 7,064.57       | 4,990.08       | 158.74          | 37.12  | 1.05              | 992.82                 | 7,819.08        | 3,783.02         | 3,701.93           | 81.09             | 46.653    |                                 |         |
| 16,500.00                                                                                        | 8,835.00       | 7,068.20       | 4,990.16       | 160.74          | 37.17  | 1.11              | 989.20                 | 7,819.26        | 3,775.36         | 3,693.45           | 81.91             | 46.091    |                                 |         |
| 16,600.00                                                                                        | 8,835.00       | 7,071.86       | 4,990.24       | 162.74          | 37.22  | 1.16              | 985.55                 | 7,819.44        | 3,770.33         | 3,687.58           | 82.75             | 45.565    |                                 |         |
| 16,700.00                                                                                        | 8,835.00       | 7,075.53       | 4,990.32       | 164.75          | 37.27  | 1.22              | 981.88                 | 7,819.62        | 3,767.95         | 3,684.35           | 83.59             | 45.076    |                                 |         |
| 16,740.01                                                                                        | 8,835.00       | 7,077.00       | 4,990.35       | 165.55          | 37.29  | 1.24              | 980.41                 | 7,819.70        | 3,767.73         | 3,683.80           | 83.93             | 44.890 CC |                                 |         |
| 16,800.00                                                                                        | 8,835.00       | 7,079.22       | 4,990.40       | 166.76          | 37.32  | 1.27              | 978.19                 | 7,819.81        | 3,768.21         | 3,683.76           | 84.45             | 44.622 ES |                                 |         |
| 16,900.00                                                                                        | 8,835.00       | 7,082.93       | 4,990.48       | 168.77          | 37.37  | 1.33              | 974.48                 | 7,819.99        | 3,771.12         | 3,685.81           | 85.31             | 44.205    |                                 |         |
| 17,000.00                                                                                        | 8,835.00       | 7,086.67       | 4,990.56       | 170.77          | 37.42  | 1.39              | 970.76                 | 7,820.18        | 3,776.68         | 3,690.50           | 86.18             | 43.824    |                                 |         |
| 17,100.00                                                                                        | 8,835.00       | 7,090.42       | 4,990.63       | 172.78          | 37.47  | 1.44              | 967.01                 | 7,820.36        | 3,784.86         | 3,697.82           | 87.05             | 43.480    |                                 |         |
| 17,200.00                                                                                        | 8,835.00       | 7,094.19       | 4,990.71       | 174.79          | 37.52  | 1.50              | 963.24                 | 7,820.55        | 3,795.66         | 3,707.75           | 87.92             | 43.173    |                                 |         |
| 17,300.00                                                                                        | 8,835.00       | 7,095.00       | 4,990.73       | 176.81          | 37.53  | 1.51              | 962.44                 | 7,820.59        | 3,809.05         | 3,720.29           | 88.76             | 42.914    |                                 |         |
| 17,400.00                                                                                        | 8,835.00       | 7,100.92       | 4,990.85       | 178.82          | 37.61  | 1.60              | 956.53                 | 7,820.89        | 3,825.01         | 3,735.37           | 89.64             | 42.672    |                                 |         |
| 17,500.00                                                                                        | 8,835.00       | 7,104.14       | 4,990.92       | 180.83          | 37.65  | 1.65              | 953.31                 | 7,821.05        | 3,843.50         | 3,753.01           | 90.48             | 42.478    |                                 |         |
| 17,600.00                                                                                        | 8,835.00       | 7,107.31       | 4,990.98       | 182.84          | 37.70  | 1.70              | 950.15                 | 7,821.20        | 3,864.48         | 3,773.17           | 91.31             | 42.321    |                                 |         |
| 17,700.00                                                                                        | 8,835.00       | 7,110.41       | 4,991.04       | 184.86          | 37.74  | 1.75              | 947.05                 | 7,821.35        | 3,887.92         | 3,795.79           | 92.13             | 42.201    |                                 |         |
| 17,800.00                                                                                        | 8,835.00       | 7,113.46       | 4,991.10       | 186.87          | 37.78  | 1.79              | 944.01                 | 7,821.49        | 3,913.77         | 3,820.85           | 92.92             | 42.118    |                                 |         |
| 17,900.00                                                                                        | 8,835.00       | 7,116.44       | 4,991.16       | 188.89          | 37.82  | 1.84              | 941.02                 | 7,821.64        | 3,941.99         | 3,848.29           | 93.70             | 42.072    |                                 |         |
| 18,000.00                                                                                        | 8,835.00       | 7,119.38       | 4,991.22       | 190.91          | 37.86  | 1.88              | 938.09                 | 7,821.77        | 3,972.52         | 3,878.08           | 94.45             | 42.061 SF |                                 |         |
| 18,100.00                                                                                        | 8,835.00       | 7,122.26       | 4,991.27       | 192.92          | 37.90  | 1.93              | 935.22                 | 7,821.91        | 4,005.32         | 3,910.14           | 95.17             | 42.086    |                                 |         |
| 18,200.00                                                                                        | 8,835.00       | 7,125.09       | 4,991.33       | 194.94          | 37.94  | 1.97              | 932.39                 | 7,822.04        | 4,040.32         | 3,944.45           | 95.87             | 42.145    |                                 |         |
| 18,300.00                                                                                        | 8,835.00       | 7,127.86       | 4,991.38       | 196.96          | 37.97  | 2.01              | 929.62                 | 7,822.17        | 4,077.47         | 3,980.93           | 96.54             | 42.238    |                                 |         |
| 18,400.00                                                                                        | 8,835.00       | 7,130.59       | 4,991.43       | 198.98          | 38.01  | 2.05              | 926.89                 | 7,822.29        | 4,116.71         | 4,019.53           | 97.17             | 42.364    |                                 |         |
| 18,500.00                                                                                        | 8,835.00       | 7,133.27       | 4,991.48       | 201.00          | 38.05  | 2.10              | 924.22                 | 7,822.41        | 4,157.98         | 4,060.20           | 97.78             | 42.522    |                                 |         |
| 18,600.00                                                                                        | 8,835.00       | 7,135.90       | 4,991.53       | 203.02          | 38.08  | 2.14              | 921.59                 | 7,822.53        | 4,201.23         | 4,102.87           | 98.36             | 42.712    |                                 |         |
| 18,700.00                                                                                        | 8,835.00       | 7,138.49       | 4,991.57       | 205.04          | 38.12  | 2.17              | 919.00                 | 7,822.65        | 4,246.39         | 4,147.48           | 98.91             | 42.931    |                                 |         |
| 18,800.00                                                                                        | 8,835.00       | 7,141.03       | 4,991.62       | 207.06          | 38.15  | 2.21              | 916.46                 | 7,822.76        | 4,293.40         | 4,193.97           | 99.43             | 43.180    |                                 |         |
| 18,900.00                                                                                        | 8,835.00       | 7,143.53       | 4,991.66       | 209.08          | 38.19  | 2.25              | 913.97                 | 7,822.87        | 4,342.20         | 4,242.29           | 99.92             | 43.457    |                                 |         |
| 19,000.00                                                                                        | 8,835.00       | 7,145.99       | 4,991.71       | 211.10          | 38.22  | 2.29              | 911.51                 | 7,822.98        | 4,392.74         | 4,292.36           | 100.38            | 43.762    |                                 |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

|                                |                                |                                                                               |                                |                           |                        |                                  |                                                  |                       |                                 |                                  |                                    |                           |                |
|--------------------------------|--------------------------------|-------------------------------------------------------------------------------|--------------------------------|---------------------------|------------------------|----------------------------------|--------------------------------------------------|-----------------------|---------------------------------|----------------------------------|------------------------------------|---------------------------|----------------|
| <b>Offset Design</b>           |                                | Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 5H - Wellbore #1 - Wellbore #1 |                                |                           |                        |                                  |                                                  |                       |                                 |                                  |                                    | <b>Offset Site Error:</b> | 5.00 ft        |
| <b>Survey Program:</b>         |                                | 233-GYRO-NS-CT, 4541-MWD+HDGM                                                 |                                |                           |                        |                                  |                                                  |                       |                                 |                                  |                                    | <b>Offset Well Error:</b> | 0.50 ft        |
| <b>Reference</b>               |                                | <b>Offset</b>                                                                 |                                | <b>Semi Major Axis</b>    |                        |                                  | <b>Distance</b>                                  |                       |                                 |                                  |                                    |                           | <b>Warning</b> |
| <b>Measured Depth<br/>(ft)</b> | <b>Vertical Depth<br/>(ft)</b> | <b>Measured Depth<br/>(ft)</b>                                                | <b>Vertical Depth<br/>(ft)</b> | <b>Reference<br/>(ft)</b> | <b>Offset<br/>(ft)</b> | <b>Highside Toolface<br/>(°)</b> | <b>Offset Wellbore Centre<br/>+N/-S<br/>(ft)</b> | <b>+E/-W<br/>(ft)</b> | <b>Between Centres<br/>(ft)</b> | <b>Between Ellipses<br/>(ft)</b> | <b>Minimum Separation<br/>(ft)</b> | <b>Separation Factor</b>  |                |
| 19,100.00                      | 8,835.00                       | 7,148.41                                                                      | 4,991.75                       | 213.12                    | 38.25                  | 2.33                             | 909.10                                           | 7,823.08              | 4,444.95                        | 4,344.14                         | 100.81                             | 44.092                    |                |
| 19,200.00                      | 8,835.00                       | 7,150.78                                                                      | 4,991.79                       | 215.15                    | 38.28                  | 2.36                             | 906.72                                           | 7,823.18              | 4,498.77                        | 4,397.56                         | 101.21                             | 44.448                    |                |
| 19,308.27                      | 8,835.00                       | 7,153.31                                                                      | 4,991.83                       | 217.34                    | 38.32                  | 2.40                             | 904.20                                           | 7,823.29              | 4,558.81                        | 4,457.18                         | 101.62                             | 44.861                    |                |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDCS Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                             |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 81-GYRO-NS, 7138-MWD+IGRF |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.00 ft |
| Reference                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                                      | 0.00                | 0.00                | 0.00                | 0.50            | 5.00        | 69.70                 | 3,114.34                          | 8,421.08   | 8,978.81             |                       |                         |                   |                    |         |
| 100.00                                    | 100.00              | 33.10               | 33.10               | 0.52            | 5.00        | 69.70                 | 3,114.29                          | 8,421.08   | 8,978.50             | 8,972.98              | 5.52                    | 1,627.153         |                    |         |
| 200.00                                    | 200.00              | 140.30              | 140.30              | 0.70            | 5.01        | 69.71                 | 3,113.68                          | 8,421.14   | 8,978.35             | 8,972.64              | 5.71                    | 1,571.984         |                    |         |
| 284.50                                    | 284.50              | 211.31              | 211.30              | 0.94            | 5.03        | 69.71                 | 3,113.39                          | 8,421.17   | 8,978.27             | 8,972.30              | 5.97                    | 1,503.778         |                    |         |
| 300.00                                    | 300.00              | 222.86              | 222.86              | 0.99            | 5.04        | 69.71                 | 3,113.38                          | 8,421.18   | 8,978.27             | 8,972.25              | 6.02                    | 1,490.776         |                    |         |
| 400.00                                    | 400.00              | 303.42              | 303.42              | 1.31            | 5.08        | 69.71                 | 3,113.65                          | 8,421.23   | 8,978.44             | 8,972.06              | 6.39                    | 1,406.146         |                    |         |
| 500.00                                    | 500.00              | 397.47              | 397.47              | 1.65            | 5.14        | 69.71                 | 3,114.27                          | 8,421.31   | 8,978.76             | 8,971.97              | 6.79                    | 1,322.546         |                    |         |
| 600.00                                    | 600.00              | 496.76              | 496.76              | 1.99            | 5.23        | 69.70                 | 3,115.03                          | 8,421.37   | 8,979.08             | 8,971.85              | 7.23                    | 1,242.670         |                    |         |
| 700.00                                    | 700.00              | 589.76              | 589.75              | 2.34            | 5.34        | 69.70                 | 3,115.81                          | 8,421.45   | 8,979.44             | 8,971.76              | 7.68                    | 1,169.245         |                    |         |
| 800.00                                    | 800.00              | 681.17              | 681.16              | 2.69            | 5.46        | 69.69                 | 3,116.69                          | 8,421.57   | 8,979.91             | 8,971.75              | 8.15                    | 1,101.631         |                    |         |
| 900.00                                    | 900.00              | 778.02              | 778.00              | 3.04            | 5.61        | 69.69                 | 3,117.77                          | 8,421.73   | 8,980.44             | 8,971.79              | 8.65                    | 1,038.292         |                    |         |
| 1,000.00                                  | 1,000.00            | 886.30              | 886.26              | 3.40            | 5.79        | 69.68                 | 3,119.21                          | 8,421.79   | 8,980.96             | 8,971.77              | 9.18                    | 977.827           |                    |         |
| 1,100.00                                  | 1,100.00            | 974.56              | 974.52              | 3.75            | 5.95        | 69.67                 | 3,120.48                          | 8,421.76   | 8,981.44             | 8,971.73              | 9.70                    | 925.814           |                    |         |
| 1,200.00                                  | 1,200.00            | 1,057.10            | 1,057.05            | 4.11            | 6.11        | 69.66                 | 3,121.91                          | 8,421.84   | 8,982.13             | 8,971.91              | 10.22                   | 879.048           |                    |         |
| 1,300.00                                  | 1,300.00            | 1,137.35            | 1,137.28            | 4.46            | 6.28        | 69.65                 | 3,123.22                          | 8,422.10   | 8,983.00             | 8,972.26              | 10.74                   | 836.442           |                    |         |
| 1,400.00                                  | 1,400.00            | 1,224.69            | 1,224.61            | 4.82            | 6.47        | 69.65                 | 3,124.39                          | 8,422.70   | 8,984.11             | 8,972.82              | 11.29                   | 796.109           |                    |         |
| 1,500.00                                  | 1,500.00            | 1,391.89            | 1,391.80            | 5.18            | 6.85        | 69.63                 | 3,126.84                          | 8,423.25   | 8,984.96             | 8,972.93              | 12.03                   | 747.017           |                    |         |
| 1,600.00                                  | 1,600.00            | 1,472.00            | 1,471.90            | 5.53            | 7.05        | 69.63                 | 3,128.12                          | 8,423.20   | 8,985.46             | 8,972.88              | 12.58                   | 714.315           |                    |         |
| 1,700.00                                  | 1,700.00            | 1,543.04            | 1,542.93            | 5.89            | 7.23        | 69.62                 | 3,129.29                          | 8,423.36   | 8,986.24             | 8,973.12              | 13.11                   | 685.278           |                    |         |
| 1,800.00                                  | 1,800.00            | 1,617.31            | 1,617.19            | 6.25            | 7.42        | 69.61                 | 3,130.47                          | 8,423.78   | 8,987.32             | 8,973.66              | 13.66                   | 657.934           |                    |         |
| 1,900.00                                  | 1,900.00            | 1,733.43            | 1,733.29            | 6.61            | 7.72        | 69.60                 | 3,132.27                          | 8,424.65   | 8,988.58             | 8,974.25              | 14.32                   | 627.595           |                    |         |
| 2,000.00                                  | 2,000.00            | 1,852.91            | 1,852.75            | 6.96            | 8.05        | 69.59                 | 3,134.37                          | 8,425.01   | 8,989.47             | 8,974.47              | 15.00                   | 599.182           |                    |         |
| 2,100.00                                  | 2,099.99            | 1,934.76            | 1,934.59            | 7.32            | 8.27        | 82.36                 | 3,135.81                          | 8,425.29   | 8,990.29             | 8,974.70              | 15.59                   | 576.817           |                    |         |
| 2,200.00                                  | 2,199.96            | 2,043.17            | 2,042.97            | 7.68            | 8.58        | 82.36                 | 3,137.99                          | 8,425.63   | 8,990.93             | 8,974.68              | 16.25                   | 553.360           |                    |         |
| 2,300.00                                  | 2,299.86            | 2,102.71            | 2,102.50            | 8.04            | 8.75        | 82.37                 | 3,139.14                          | 8,425.95   | 8,991.53             | 8,974.75              | 16.77                   | 536.053           |                    |         |
| 2,400.00                                  | 2,399.68            | 2,251.73            | 2,251.49            | 8.39            | 9.18        | 82.40                 | 3,142.04                          | 8,426.62   | 8,991.81             | 8,974.25              | 17.56                   | 511.980           |                    |         |
| 2,433.12                                  | 2,432.70            | 2,270.06            | 2,269.82            | 8.51            | 9.24        | 82.41                 | 3,142.44                          | 8,426.65   | 8,991.80             | 8,974.07              | 17.73                   | 507.027           |                    |         |
| 2,500.00                                  | 2,499.37            | 2,320.50            | 2,320.24            | 8.75            | 9.39        | 82.43                 | 3,143.58                          | 8,426.89   | 8,991.88             | 8,973.76              | 18.12                   | 496.213           |                    |         |
| 2,600.00                                  | 2,598.90            | 2,378.65            | 2,378.38            | 9.11            | 9.56        | 82.46                 | 3,144.87                          | 8,427.37   | 8,992.10             | 8,973.46              | 18.65                   | 482.178           |                    |         |
| 2,700.00                                  | 2,698.26            | 2,552.42            | 2,552.10            | 9.46            | 10.08       | 82.56                 | 3,148.83                          | 8,428.00   | 8,991.69             | 8,972.16              | 19.53                   | 460.413           |                    |         |
| 2,800.00                                  | 2,797.40            | 2,615.30            | 2,614.96            | 9.82            | 10.28       | 82.61                 | 3,150.43                          | 8,428.11   | 8,991.03             | 8,970.95              | 20.08                   | 447.815           |                    |         |
| 2,900.00                                  | 2,896.30            | 2,695.38            | 2,695.01            | 10.18           | 10.52       | 82.68                 | 3,152.50                          | 8,428.47   | 8,990.45             | 8,969.77              | 20.68                   | 434.731           |                    |         |
| 3,000.00                                  | 2,994.93            | 2,806.21            | 2,805.80            | 10.54           | 10.87       | 82.79                 | 3,155.51                          | 8,428.98   | 8,989.71             | 8,968.33              | 21.38                   | 420.427           |                    |         |
| 3,100.00                                  | 3,093.26            | 2,886.00            | 2,885.56            | 10.90           | 11.11       | 82.88                 | 3,157.70                          | 8,429.34   | 8,988.79             | 8,966.80              | 21.99                   | 408.755           |                    |         |
| 3,195.07                                  | 3,186.42            | 2,943.76            | 2,943.30            | 11.24           | 11.30       | 82.95                 | 3,159.21                          | 8,429.81   | 8,988.02             | 8,965.51              | 22.51                   | 399.213           |                    |         |
| 3,200.00                                  | 3,191.25            | 2,946.49            | 2,946.03            | 11.26           | 11.30       | 82.95                 | 3,159.27                          | 8,429.84   | 8,987.99             | 8,965.45              | 22.54                   | 398.745           |                    |         |
| 3,300.00                                  | 3,289.08            | 3,108.50            | 3,107.97            | 11.62           | 11.82       | 83.14                 | 3,163.36                          | 8,431.15   | 8,987.10             | 8,963.68              | 23.42                   | 383.787           |                    |         |
| 3,400.00                                  | 3,386.91            | 3,186.50            | 3,185.95            | 11.98           | 12.07       | 83.23                 | 3,165.38                          | 8,431.52   | 8,985.94             | 8,961.91              | 24.03                   | 373.949           |                    |         |
| 3,500.00                                  | 3,484.74            | 3,270.82            | 3,270.24            | 12.35           | 12.34       | 83.33                 | 3,167.58                          | 8,432.09   | 8,985.00             | 8,960.33              | 24.67                   | 364.268           |                    |         |
| 3,600.00                                  | 3,582.58            | 3,364.44            | 3,363.82            | 12.72           | 12.64       | 83.44                 | 3,170.06                          | 8,432.80   | 8,984.19             | 8,958.86              | 25.33                   | 354.619           |                    |         |
| 3,700.00                                  | 3,680.41            | 3,467.38            | 3,466.73            | 13.09           | 12.97       | 83.56                 | 3,172.74                          | 8,433.63   | 8,983.45             | 8,957.42              | 26.04                   | 345.030           |                    |         |
| 3,800.00                                  | 3,778.24            | 3,685.69            | 3,684.98            | 13.46           | 13.68       | 83.82                 | 3,176.88                          | 8,433.16   | 8,981.00             | 8,953.88              | 27.11                   | 331.221           |                    |         |
| 3,900.00                                  | 3,876.08            | 3,731.50            | 3,730.79            | 13.83           | 13.83       | 83.89                 | 3,176.67                          | 8,433.66   | 8,979.43             | 8,951.79              | 27.64                   | 324.913           |                    |         |
| 4,000.00                                  | 3,973.91            | 4,000.00            | 3,800.01            | 14.21           | 14.70       | 83.98                 | 3,177.08                          | 8,434.34   | 8,978.29             | 8,949.40              | 28.89                   | 310.803           |                    |         |
| 4,100.00                                  | 4,071.74            | 3,881.71            | 3,880.97            | 14.58           | 14.32       | 84.07                 | 3,178.47                          | 8,434.76   | 8,977.18             | 8,948.31              | 28.87                   | 310.901           |                    |         |
| 4,200.00                                  | 4,169.57            | 3,940.61            | 3,939.85            | 14.96           | 14.51       | 84.15                 | 3,179.65                          | 8,435.35   | 8,976.61             | 8,947.16              | 29.44                   | 304.883           |                    |         |
| 4,300.00                                  | 4,267.41            | 4,027.81            | 4,027.03            | 15.33           | 14.80       | 84.25                 | 3,181.13                          | 8,436.54   | 8,976.34             | 8,946.24              | 30.11                   | 298.160           |                    |         |
| 4,400.00                                  | 4,365.24            | 4,184.22            | 4,183.42            | 15.71           | 15.31       | 84.45                 | 3,182.77                          | 8,438.64   | 8,975.94             | 8,944.94              | 31.00                   | 289.545           |                    |         |
| 4,500.00                                  | 4,463.07            | 4,260.68            | 4,259.87            | 16.09           | 15.57       | 84.56                 | 3,182.43                          | 8,439.77   | 8,975.22             | 8,943.59              | 31.63                   | 283.750           |                    |         |
| 4,600.00                                  | 4,560.90            | 4,340.15            | 4,339.33            | 16.47           | 15.83       | 84.66                 | 3,183.13                          | 8,440.88   | 8,974.85             | 8,942.58              | 32.27                   | 278.096           |                    |         |
| 4,700.00                                  | 4,658.74            | 4,700.00            | 4,623.23            | 16.85           | 17.03       | 84.90                 | 3,184.42                          | 8,443.16   | 8,974.54             | 8,940.69              | 33.85                   | 265.123           |                    |         |
| 4,800.00                                  | 4,756.57            | 4,622.10            | 4,621.24            | 17.23           | 16.77       | 85.02                 | 3,185.67                          | 8,443.29   | 8,973.22             | 8,939.24              | 33.97                   | 264.145           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                             |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 8H - Original Hole - Actuals |         | Offset Site Error: 5.00 ft |  |
|-------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|-----------------------------------------------------------------------------|---------|----------------------------|--|
| Survey Program: 81-GYRO-NS, 7138-MWD+IGRF |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: 0.00 ft                                                  |         |                            |  |
| Reference                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                                                                             | Warning |                            |  |
| Measured Depth (ft)                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                                                                             |         |                            |  |
| 4,900.00                                  | 4,854.40            | 4,671.00            | 4,670.14            | 17.61           | 16.93       | 85.09                 | 3,186.17                          | 8,443.69   | 8,972.44             | 8,937.93              | 34.51                   | 259.962           |                                                                             |         |                            |  |
| 5,000.00                                  | 4,952.23            | 4,765.98            | 4,765.11            | 17.99           | 17.25       | 85.21                 | 3,187.15                          | 8,444.76   | 8,972.06             | 8,936.84              | 35.21                   | 254.792           |                                                                             |         |                            |  |
| 5,100.00                                  | 5,050.07            | 4,859.84            | 4,858.96            | 18.37           | 17.56       | 85.33                 | 3,188.29                          | 8,445.68   | 8,971.63             | 8,935.72              | 35.91                   | 249.841           |                                                                             |         |                            |  |
| 5,200.00                                  | 5,147.90            | 10,290.19           | 7,778.19            | 18.75           | 59.52       | 107.09                | 376.18                            | 8,420.17   | 8,958.45             | 8,883.22              | 75.23                   | 119.083           |                                                                             |         |                            |  |
| 5,300.00                                  | 5,245.73            | 10,279.66           | 7,777.90            | 19.14           | 59.34       | 107.03                | 386.70                            | 8,420.45   | 8,934.15             | 8,858.52              | 75.63                   | 118.127           |                                                                             |         |                            |  |
| 5,400.00                                  | 5,343.56            | 10,268.83           | 7,777.63            | 19.52           | 59.15       | 106.95                | 397.52                            | 8,420.73   | 8,910.88             | 8,834.85              | 76.03                   | 117.209           |                                                                             |         |                            |  |
| 5,500.00                                  | 5,441.40            | 10,257.69           | 7,777.39            | 19.90           | 58.96       | 106.88                | 408.66                            | 8,421.03   | 8,888.65             | 8,812.24              | 76.41                   | 116.332           |                                                                             |         |                            |  |
| 5,600.00                                  | 5,539.23            | 10,242.00           | 7,777.09            | 20.29           | 58.69       | 106.78                | 424.34                            | 8,421.45   | 8,867.47             | 8,790.76              | 76.71                   | 115.599           |                                                                             |         |                            |  |
| 5,700.00                                  | 5,637.06            | 10,242.00           | 7,777.09            | 20.67           | 58.69       | 106.78                | 424.34                            | 8,421.45   | 8,847.35             | 8,770.09              | 77.27                   | 114.505           |                                                                             |         |                            |  |
| 5,800.00                                  | 5,734.90            | 10,225.28           | 7,776.83            | 21.05           | 58.40       | 106.67                | 441.05                            | 8,421.90   | 8,828.29             | 8,750.75              | 77.54                   | 113.856           |                                                                             |         |                            |  |
| 5,900.00                                  | 5,832.73            | 10,214.79           | 7,776.70            | 21.44           | 58.22       | 106.60                | 451.54                            | 8,422.19   | 8,810.31             | 8,732.40              | 77.91                   | 113.084           |                                                                             |         |                            |  |
| 6,000.00                                  | 5,930.56            | 10,204.08           | 7,776.58            | 21.83           | 58.04       | 106.53                | 462.24                            | 8,422.49   | 8,793.40             | 8,715.13              | 78.27                   | 112.348           |                                                                             |         |                            |  |
| 6,100.00                                  | 6,028.39            | 10,193.14           | 7,776.49            | 22.21           | 57.85       | 106.46                | 473.18                            | 8,422.81   | 8,777.57             | 8,698.96              | 78.62                   | 111.647           |                                                                             |         |                            |  |
| 6,200.00                                  | 6,126.23            | 9,878.66            | 7,771.74            | 22.60           | 52.49       | 104.42                | 787.55                            | 8,427.24   | 8,762.76             | 8,688.87              | 73.89                   | 118.586           |                                                                             |         |                            |  |
| 6,300.00                                  | 6,224.06            | 9,855.44            | 7,771.06            | 22.98           | 52.10       | 104.27                | 810.77                            | 8,427.20   | 8,748.46             | 8,674.44              | 74.02                   | 118.189           |                                                                             |         |                            |  |
| 6,400.00                                  | 6,321.89            | 9,834.50            | 7,770.45            | 23.37           | 51.75       | 104.14                | 831.69                            | 8,427.16   | 8,735.24             | 8,661.06              | 74.18                   | 117.756           |                                                                             |         |                            |  |
| 6,500.00                                  | 6,419.72            | 9,813.50            | 7,769.85            | 23.76           | 51.40       | 104.00                | 852.69                            | 8,427.11   | 8,723.10             | 8,648.77              | 74.33                   | 117.353           |                                                                             |         |                            |  |
| 6,600.00                                  | 6,517.56            | 9,792.43            | 7,769.25            | 24.14           | 51.05       | 103.86                | 873.75                            | 8,427.05   | 8,712.06             | 8,637.58              | 74.47                   | 116.981           |                                                                             |         |                            |  |
| 6,700.00                                  | 6,615.39            | 9,771.40            | 7,768.65            | 24.53           | 50.69       | 103.72                | 894.77                            | 8,426.97   | 8,702.10             | 8,627.49              | 74.61                   | 116.635           |                                                                             |         |                            |  |
| 6,800.00                                  | 6,713.22            | 9,741.38            | 7,767.82            | 24.92           | 50.20       | 103.53                | 924.78                            | 8,426.84   | 8,693.23             | 8,618.64              | 74.59                   | 116.545           |                                                                             |         |                            |  |
| 6,900.00                                  | 6,811.05            | 9,711.07            | 7,767.01            | 25.30           | 49.69       | 103.33                | 955.08                            | 8,426.66   | 8,685.45             | 8,610.89              | 74.56                   | 116.489           |                                                                             |         |                            |  |
| 7,000.00                                  | 6,908.89            | 9,680.46            | 7,766.21            | 25.69           | 49.18       | 103.13                | 985.67                            | 8,426.43   | 8,678.75             | 8,604.23              | 74.52                   | 116.468           |                                                                             |         |                            |  |
| 7,100.00                                  | 7,006.72            | 9,658.99            | 7,765.66            | 26.08           | 48.83       | 102.99                | 1,007.13                          | 8,426.24   | 8,673.14             | 8,598.52              | 74.62                   | 116.235           |                                                                             |         |                            |  |
| 7,200.00                                  | 7,104.55            | 9,638.70            | 7,765.13            | 26.47           | 48.50       | 102.86                | 1,027.42                          | 8,426.06   | 8,668.64             | 8,593.91              | 74.73                   | 115.998           |                                                                             |         |                            |  |
| 7,216.87                                  | 7,121.05            | 9,635.28            | 7,765.05            | 26.53           | 48.44       | 102.84                | 1,030.84                          | 8,426.03   | 8,667.99             | 8,593.24              | 74.75                   | 115.961           |                                                                             |         |                            |  |
| 7,300.00                                  | 7,202.57            | 9,619.40            | 7,764.64            | 26.85           | 48.18       | 102.69                | 1,046.71                          | 8,425.88   | 8,665.05             | 8,590.20              | 74.85                   | 115.765           |                                                                             |         |                            |  |
| 7,400.00                                  | 7,301.06            | 9,602.96            | 7,764.22            | 27.23           | 47.91       | 102.54                | 1,063.15                          | 8,425.73   | 8,662.02             | 8,587.01              | 75.00                   | 115.489           |                                                                             |         |                            |  |
| 7,500.00                                  | 7,399.97            | 9,589.41            | 7,763.87            | 27.61           | 47.69       | 102.41                | 1,076.69                          | 8,425.59   | 8,659.54             | 8,584.35              | 75.19                   | 115.170           |                                                                             |         |                            |  |
| 7,600.00                                  | 7,499.23            | 9,582.00            | 7,763.68            | 27.98           | 47.57       | 102.34                | 1,084.10                          | 8,425.52   | 8,657.65             | 8,582.19              | 75.46                   | 114.729           |                                                                             |         |                            |  |
| 7,700.00                                  | 7,598.77            | 9,582.00            | 7,763.68            | 28.34           | 47.57       | 102.32                | 1,084.10                          | 8,425.52   | 8,656.35             | 8,580.50              | 75.84                   | 114.137           |                                                                             |         |                            |  |
| 7,800.00                                  | 7,698.53            | 9,582.00            | 7,763.68            | 28.70           | 47.57       | 102.31                | 1,084.10                          | 8,425.52   | 8,655.64             | 8,579.43              | 76.21                   | 113.582           |                                                                             |         |                            |  |
| 7,868.25                                  | 7,766.70            | 9,582.00            | 7,763.68            | 28.93           | 47.57       | 102.31                | 1,084.10                          | 8,425.52   | 8,655.50             | 8,579.05              | 76.45                   | 113.224           |                                                                             |         |                            |  |
| 7,900.00                                  | 7,798.44            | 9,582.00            | 7,763.68            | 29.05           | 47.57       | 102.31                | 1,084.10                          | 8,425.52   | 8,655.53             | 8,578.97              | 76.56                   | 113.061           |                                                                             |         |                            |  |
| 8,000.00                                  | 7,898.42            | 9,582.00            | 7,763.68            | 29.39           | 47.57       | 102.31                | 1,084.10                          | 8,425.52   | 8,656.02             | 8,579.13              | 76.89                   | 112.575           |                                                                             |         |                            |  |
| 8,013.58                                  | 7,912.00            | 9,582.00            | 7,763.68            | 29.43           | 47.57       | 89.54                 | 1,084.10                          | 8,425.52   | 8,656.13             | 8,579.20              | 76.94                   | 112.512           |                                                                             |         |                            |  |
| 8,100.00                                  | 7,998.42            | 9,582.00            | 7,763.68            | 29.73           | 47.57       | 89.54                 | 1,084.10                          | 8,425.52   | 8,657.31             | 8,580.10              | 77.21                   | 112.122           |                                                                             |         |                            |  |
| 8,200.00                                  | 8,098.42            | 9,582.00            | 7,763.68            | 30.07           | 47.57       | 89.54                 | 1,084.10                          | 8,425.52   | 8,659.76             | 8,582.23              | 77.53                   | 111.699           |                                                                             |         |                            |  |
| 8,300.00                                  | 8,198.42            | 9,582.00            | 7,763.68            | 30.41           | 47.57       | 89.54                 | 1,084.10                          | 8,425.52   | 8,663.35             | 8,585.52              | 77.83                   | 111.306           |                                                                             |         |                            |  |
| 8,363.62                                  | 8,262.04            | 9,582.00            | 7,763.68            | 30.62           | 47.57       | 89.54                 | 1,084.10                          | 8,425.52   | 8,666.24             | 8,588.22              | 78.02                   | 111.072           |                                                                             |         |                            |  |
| 8,400.00                                  | 8,298.40            | 9,582.00            | 7,763.68            | 30.75           | 47.57       | -0.12                 | 1,084.10                          | 8,425.52   | 8,666.95             | 8,588.82              | 78.13                   | 110.933           |                                                                             |         |                            |  |
| 8,450.00                                  | 8,348.10            | 9,582.00            | 7,763.68            | 30.91           | 47.57       | -0.12                 | 1,084.10                          | 8,425.52   | 8,664.40             | 8,586.14              | 78.26                   | 110.710           |                                                                             |         |                            |  |
| 8,500.00                                  | 8,397.14            | 9,582.00            | 7,763.68            | 31.07           | 47.57       | -0.12                 | 1,084.10                          | 8,425.52   | 8,657.80             | 8,579.40              | 78.39                   | 110.443           |                                                                             |         |                            |  |
| 8,550.00                                  | 8,445.15            | 9,582.00            | 7,763.68            | 31.23           | 47.57       | -0.13                 | 1,084.10                          | 8,425.52   | 8,647.18             | 8,568.66              | 78.51                   | 110.137           |                                                                             |         |                            |  |
| 8,600.00                                  | 8,491.77            | 9,583.13            | 7,763.71            | 31.38           | 47.58       | -0.12                 | 1,082.97                          | 8,425.53   | 8,632.61             | 8,553.96              | 78.64                   | 109.768           |                                                                             |         |                            |  |
| 8,650.00                                  | 8,536.65            | 9,584.54            | 7,763.75            | 31.52           | 47.61       | -0.12                 | 1,081.55                          | 8,425.55   | 8,614.18             | 8,535.41              | 78.77                   | 109.359           |                                                                             |         |                            |  |
| 8,700.00                                  | 8,579.43            | 9,585.92            | 7,763.78            | 31.66           | 47.63       | -0.11                 | 1,080.18                          | 8,425.56   | 8,592.01             | 8,513.13              | 78.88                   | 108.920           |                                                                             |         |                            |  |
| 8,750.00                                  | 8,619.80            | 9,587.23            | 7,763.81            | 31.80           | 47.65       | -0.11                 | 1,078.87                          | 8,425.57   | 8,566.24             | 8,487.25              | 78.99                   | 108.453           |                                                                             |         |                            |  |
| 8,800.00                                  | 8,657.44            | 9,588.48            | 7,763.85            | 31.93           | 47.67       | -0.10                 | 1,077.62                          | 8,425.59   | 8,537.03             | 8,457.95              | 79.08                   | 107.960           |                                                                             |         |                            |  |
| 8,850.00                                  | 8,692.08            | 9,589.66            | 7,763.88            | 32.06           | 47.69       | -0.10                 | 1,076.44                          | 8,425.60   | 8,504.57             | 8,425.42              | 79.15                   | 107.445           |                                                                             |         |                            |  |
| 8,900.00                                  | 8,723.44            | 9,590.75            | 7,763.90            | 32.19           | 47.71       | -0.10                 | 1,075.35                          | 8,425.61   | 8,469.07             | 8,389.85              | 79.22                   | 106.910           |                                                                             |         |                            |  |
| 8,950.00                                  | 8,751.29            | 9,591.75            | 7,763.93            | 32.34           | 47.73       | -0.10                 | 1,074.36                          | 8,425.62   | 8,430.77             | 8,351.50              | 79.27                   | 106.357           |                                                                             |         |                            |  |
| 9,000.00                                  | 8,775.42            | 9,592.64            | 7,763.95            | 32.50           | 47.74       | -0.10                 | 1,073.46                          | 8,425.63   | 8,389.92             | 8,310.61              | 79.31                   | 105.788           |                                                                             |         |                            |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                             |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |         | Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 8H - Original Hole - Actuals |         | Offset Site Error: 5.00 ft |  |
|-------------------------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|---------|-----------------------------------------------------------------------------|---------|----------------------------|--|
| Survey Program: 81-GYRO-NS, 7138-MWD+IGRF |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |         | Offset Well Error: 0.00 ft                                                  |         |                            |  |
| Reference                                 |                | Offset         |                | Semi Major Axis |        |                   | Distance               |                 |                  |                    |                   |         |                                                                             | Warning |                            |  |
| Measured Depth                            | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor |         |                                                                             |         |                            |  |
| (ft)                                      | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft)      | (ft)             | (ft)               | (ft)              |         |                                                                             |         |                            |  |
| 9,050.00                                  | 8,795.64       | 9,593.43       | 7,763.97       | 32.67           | 47.75  | -0.10             | 1,072.67               | 8,425.63        | 8,346.79         | 8,267.45           | 79.34             | 105.205 |                                                                             |         |                            |  |
| 9,100.00                                  | 8,811.80       | 9,594.11       | 7,763.99       | 32.87           | 47.76  | -0.11             | 1,071.99               | 8,425.64        | 8,301.69         | 8,222.33           | 79.36             | 104.610 |                                                                             |         |                            |  |
| 9,150.00                                  | 8,823.77       | 9,594.67       | 7,764.01       | 33.10           | 47.77  | -0.13             | 1,071.43               | 8,425.65        | 8,254.92         | 8,175.55           | 79.37             | 104.005 |                                                                             |         |                            |  |
| 9,200.00                                  | 8,831.47       | 9,595.11       | 7,764.02       | 33.34           | 47.78  | -0.16             | 1,070.99               | 8,425.65        | 8,206.82         | 8,127.44           | 79.38             | 103.392 |                                                                             |         |                            |  |
| 9,250.00                                  | 8,834.84       | 9,595.42       | 7,764.02       | 33.60           | 47.79  | -0.25             | 1,070.68               | 8,425.65        | 8,157.73         | 8,078.35           | 79.38             | 102.772 |                                                                             |         |                            |  |
| 9,263.62                                  | 8,835.00       | 9,595.48       | 7,764.03       | 33.67           | 47.79  | -0.29             | 1,070.62               | 8,425.65        | 8,144.23         | 8,064.85           | 79.38             | 102.601 |                                                                             |         |                            |  |
| 9,300.00                                  | 8,835.00       | 9,595.64       | 7,764.03       | 33.88           | 47.79  | -0.28             | 1,070.46               | 8,425.66        | 8,108.13         | 8,028.75           | 79.38             | 102.149 |                                                                             |         |                            |  |
| 9,400.00                                  | 8,835.00       | 9,596.07       | 7,764.04       | 34.53           | 47.80  | -0.26             | 1,070.03               | 8,425.66        | 8,008.90         | 7,929.53           | 79.37             | 100.908 |                                                                             |         |                            |  |
| 9,500.00                                  | 8,835.00       | 9,596.50       | 7,764.05       | 35.30           | 47.80  | -0.23             | 1,069.61               | 8,425.66        | 7,909.68         | 7,830.32           | 79.36             | 99.665  |                                                                             |         |                            |  |
| 9,600.00                                  | 8,835.00       | 9,596.92       | 7,764.06       | 36.17           | 47.81  | -0.21             | 1,069.18               | 8,425.67        | 7,810.49         | 7,731.14           | 79.36             | 98.422  |                                                                             |         |                            |  |
| 9,700.00                                  | 8,835.00       | 9,597.35       | 7,764.07       | 37.13           | 47.82  | -0.18             | 1,068.76               | 8,425.67        | 7,711.32         | 7,631.97           | 79.35             | 97.178  |                                                                             |         |                            |  |
| 9,800.00                                  | 8,835.00       | 9,597.77       | 7,764.08       | 38.18           | 47.82  | -0.16             | 1,068.33               | 8,425.68        | 7,612.17         | 7,532.83           | 79.35             | 95.934  |                                                                             |         |                            |  |
| 9,900.00                                  | 8,835.00       | 9,598.19       | 7,764.10       | 39.31           | 47.83  | -0.13             | 1,067.91               | 8,425.68        | 7,513.05         | 7,433.70           | 79.34             | 94.689  |                                                                             |         |                            |  |
| 10,000.00                                 | 8,835.00       | 9,598.61       | 7,764.11       | 40.51           | 47.84  | -0.11             | 1,067.49               | 8,425.68        | 7,413.95         | 7,334.60           | 79.34             | 93.443  |                                                                             |         |                            |  |
| 10,100.00                                 | 8,835.00       | 9,599.03       | 7,764.12       | 41.78           | 47.85  | -0.09             | 1,067.07               | 8,425.69        | 7,314.87         | 7,235.53           | 79.34             | 92.197  |                                                                             |         |                            |  |
| 10,200.00                                 | 8,835.00       | 9,599.45       | 7,764.13       | 43.10           | 47.85  | -0.06             | 1,066.66               | 8,425.69        | 7,215.82         | 7,136.48           | 79.34             | 90.951  |                                                                             |         |                            |  |
| 10,300.00                                 | 8,835.00       | 9,599.87       | 7,764.14       | 44.49           | 47.86  | -0.04             | 1,066.24               | 8,425.70        | 7,116.79         | 7,037.45           | 79.34             | 89.704  |                                                                             |         |                            |  |
| 10,400.00                                 | 8,835.00       | 9,600.28       | 7,764.15       | 45.92           | 47.87  | -0.01             | 1,065.82               | 8,425.70        | 7,017.79         | 6,938.45           | 79.34             | 88.456  |                                                                             |         |                            |  |
| 10,500.00                                 | 8,835.00       | 9,600.69       | 7,764.16       | 47.39           | 47.87  | 0.01              | 1,065.41               | 8,425.70        | 6,918.82         | 6,839.48           | 79.34             | 87.209  |                                                                             |         |                            |  |
| 10,600.00                                 | 8,835.00       | 9,601.11       | 7,764.17       | 48.91           | 47.88  | 0.03              | 1,065.00               | 8,425.71        | 6,819.88         | 6,740.54           | 79.34             | 85.961  |                                                                             |         |                            |  |
| 10,700.00                                 | 8,835.00       | 9,601.52       | 7,764.18       | 50.47           | 47.89  | 0.06              | 1,064.59               | 8,425.71        | 6,720.97         | 6,641.63           | 79.34             | 84.712  |                                                                             |         |                            |  |
| 10,800.00                                 | 8,835.00       | 9,601.93       | 7,764.19       | 52.06           | 47.89  | 0.08              | 1,064.18               | 8,425.72        | 6,622.10         | 6,542.76           | 79.34             | 83.464  |                                                                             |         |                            |  |
| 10,900.00                                 | 8,835.00       | 9,602.33       | 7,764.20       | 53.68           | 47.90  | 0.10              | 1,063.77               | 8,425.72        | 6,523.26         | 6,443.91           | 79.34             | 82.215  |                                                                             |         |                            |  |
| 11,000.00                                 | 8,835.00       | 9,602.74       | 7,764.21       | 55.32           | 47.91  | 0.13              | 1,063.36               | 8,425.72        | 6,424.45         | 6,345.10           | 79.35             | 80.967  |                                                                             |         |                            |  |
| 11,100.00                                 | 8,835.00       | 9,603.15       | 7,764.22       | 57.00           | 47.91  | 0.15              | 1,062.96               | 8,425.73        | 6,325.68         | 6,246.33           | 79.35             | 79.718  |                                                                             |         |                            |  |
| 11,200.00                                 | 8,835.00       | 9,603.55       | 7,764.23       | 58.70           | 47.92  | 0.17              | 1,062.55               | 8,425.73        | 6,226.95         | 6,147.60           | 79.36             | 78.469  |                                                                             |         |                            |  |
| 11,300.00                                 | 8,835.00       | 9,603.95       | 7,764.24       | 60.41           | 47.93  | 0.20              | 1,062.15               | 8,425.74        | 6,128.27         | 6,048.91           | 79.36             | 77.220  |                                                                             |         |                            |  |
| 11,400.00                                 | 8,835.00       | 9,604.36       | 7,764.25       | 62.15           | 47.93  | 0.22              | 1,061.75               | 8,425.74        | 6,029.62         | 5,950.26           | 79.37             | 75.971  |                                                                             |         |                            |  |
| 11,500.00                                 | 8,835.00       | 9,604.76       | 7,764.26       | 63.91           | 47.94  | 0.24              | 1,061.35               | 8,425.74        | 5,931.02         | 5,851.65           | 79.37             | 74.723  |                                                                             |         |                            |  |
| 11,600.00                                 | 8,835.00       | 9,605.15       | 7,764.27       | 65.69           | 47.95  | 0.27              | 1,060.95               | 8,425.75        | 5,832.47         | 5,753.09           | 79.38             | 73.474  |                                                                             |         |                            |  |
| 11,700.00                                 | 8,835.00       | 9,605.55       | 7,764.28       | 67.47           | 47.95  | 0.29              | 1,060.55               | 8,425.75        | 5,733.97         | 5,654.58           | 79.39             | 72.226  |                                                                             |         |                            |  |
| 11,800.00                                 | 8,835.00       | 9,605.95       | 7,764.29       | 69.28           | 47.96  | 0.31              | 1,060.16               | 8,425.75        | 5,635.52         | 5,556.12           | 79.40             | 70.978  |                                                                             |         |                            |  |
| 11,900.00                                 | 8,835.00       | 9,606.34       | 7,764.30       | 71.09           | 47.97  | 0.33              | 1,059.76               | 8,425.76        | 5,537.13         | 5,457.72           | 79.41             | 69.730  |                                                                             |         |                            |  |
| 12,000.00                                 | 8,835.00       | 9,606.74       | 7,764.31       | 72.92           | 47.97  | 0.36              | 1,059.37               | 8,425.76        | 5,438.80         | 5,359.38           | 79.42             | 68.483  |                                                                             |         |                            |  |
| 12,100.00                                 | 8,835.00       | 9,607.13       | 7,764.32       | 74.76           | 47.98  | 0.38              | 1,058.98               | 8,425.77        | 5,340.52         | 5,261.09           | 79.43             | 67.236  |                                                                             |         |                            |  |
| 12,200.00                                 | 8,835.00       | 9,607.52       | 7,764.33       | 76.61           | 47.98  | 0.40              | 1,058.58               | 8,425.77        | 5,242.32         | 5,162.87           | 79.44             | 65.990  |                                                                             |         |                            |  |
| 12,300.00                                 | 8,835.00       | 9,607.91       | 7,764.34       | 78.47           | 47.99  | 0.42              | 1,058.19               | 8,425.77        | 5,144.18         | 5,064.72           | 79.45             | 64.744  |                                                                             |         |                            |  |
| 12,400.00                                 | 8,835.00       | 9,608.30       | 7,764.35       | 80.34           | 48.00  | 0.45              | 1,057.81               | 8,425.78        | 5,046.11         | 4,966.65           | 79.47             | 63.498  |                                                                             |         |                            |  |
| 12,500.00                                 | 8,835.00       | 9,608.69       | 7,764.36       | 82.22           | 48.00  | 0.47              | 1,057.42               | 8,425.78        | 4,948.13         | 4,868.64           | 79.48             | 62.253  |                                                                             |         |                            |  |
| 12,600.00                                 | 8,835.00       | 9,609.08       | 7,764.37       | 84.11           | 48.01  | 0.49              | 1,057.03               | 8,425.78        | 4,850.22         | 4,770.72           | 79.50             | 61.009  |                                                                             |         |                            |  |
| 12,700.00                                 | 8,835.00       | 9,609.46       | 7,764.38       | 86.00           | 48.02  | 0.51              | 1,056.65               | 8,425.79        | 4,752.40         | 4,672.89           | 79.52             | 59.766  |                                                                             |         |                            |  |
| 12,800.00                                 | 8,835.00       | 9,609.85       | 7,764.39       | 87.90           | 48.02  | 0.54              | 1,056.26               | 8,425.79        | 4,654.68         | 4,575.14           | 79.54             | 58.523  |                                                                             |         |                            |  |
| 12,900.00                                 | 8,835.00       | 9,610.23       | 7,764.40       | 89.81           | 48.03  | 0.56              | 1,055.88               | 8,425.80        | 4,557.05         | 4,477.49           | 79.56             | 57.281  |                                                                             |         |                            |  |
| 13,000.00                                 | 8,835.00       | 9,610.61       | 7,764.41       | 91.72           | 48.04  | 0.58              | 1,055.50               | 8,425.80        | 4,459.53         | 4,379.95           | 79.58             | 56.040  |                                                                             |         |                            |  |
| 13,100.00                                 | 8,835.00       | 9,610.99       | 7,764.42       | 93.64           | 48.04  | 0.60              | 1,055.12               | 8,425.80        | 4,362.12         | 4,282.52           | 79.60             | 54.799  |                                                                             |         |                            |  |
| 13,200.00                                 | 8,835.00       | 9,611.37       | 7,764.43       | 95.56           | 48.05  | 0.62              | 1,054.74               | 8,425.81        | 4,264.83         | 4,185.20           | 79.63             | 53.560  |                                                                             |         |                            |  |
| 13,300.00                                 | 8,835.00       | 9,611.75       | 7,764.44       | 97.49           | 48.05  | 0.64              | 1,054.36               | 8,425.81        | 4,167.67         | 4,088.02           | 79.65             | 52.322  |                                                                             |         |                            |  |
| 13,400.00                                 | 8,835.00       | 9,612.12       | 7,764.45       | 99.42           | 48.06  | 0.67              | 1,053.98               | 8,425.81        | 4,070.65         | 3,990.96           | 79.68             | 51.085  |                                                                             |         |                            |  |
| 13,500.00                                 | 8,835.00       | 9,612.50       | 7,764.46       | 101.36          | 48.07  | 0.69              | 1,053.61               | 8,425.82        | 3,973.77         | 3,894.05           | 79.72             | 49.849  |                                                                             |         |                            |  |
| 13,600.00                                 | 8,835.00       | 9,612.87       | 7,764.47       | 103.30          | 48.07  | 0.71              | 1,053.23               | 8,425.82        | 3,877.05         | 3,797.30           | 79.75             | 48.615  |                                                                             |         |                            |  |
| 13,700.00                                 | 8,835.00       | 9,613.25       | 7,764.48       | 105.25          | 48.08  | 0.73              | 1,052.86               | 8,425.82        | 3,780.51         | 3,700.72           | 79.79             | 47.381  |                                                                             |         |                            |  |
| 13,800.00                                 | 8,835.00       | 9,613.62       | 7,764.49       | 107.20          | 48.08  | 0.75              | 1,052.49               | 8,425.83        | 3,684.14         | 3,604.31           | 79.83             | 46.150  |                                                                             |         |                            |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                             |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               |                      | Offset Site Error: | 5.00 ft |
|-------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|---------|
| Survey Program: 81-GYRO-NS, 7138-MWD+IGRF |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               |                      | Offset Well Error: | 0.00 ft |
| Reference                                 |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                      |                    | Warning |
| Measured Depth<br>(ft)                    | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor |                    |         |
| 13,900.00                                 | 8,835.00               | 9,613.99               | 7,764.50               | 109.15            | 48.09          | 0.77                        | 1,052.12                                | 8,425.83      | 3,587.98                   | 3,508.10                    | 79.88                         | 44.920               |                    |         |
| 14,000.00                                 | 8,835.00               | 9,614.36               | 7,764.51               | 111.10            | 48.10          | 0.79                        | 1,051.75                                | 8,425.84      | 3,492.03                   | 3,412.11                    | 79.93                         | 43.691               |                    |         |
| 14,100.00                                 | 8,835.00               | 9,614.73               | 7,764.52               | 113.06            | 48.10          | 0.82                        | 1,051.38                                | 8,425.84      | 3,396.32                   | 3,316.34                    | 79.98                         | 42.464               |                    |         |
| 14,200.00                                 | 8,835.00               | 9,615.10               | 7,764.53               | 115.03            | 48.11          | 0.84                        | 1,051.01                                | 8,425.84      | 3,300.86                   | 3,220.82                    | 80.04                         | 41.239               |                    |         |
| 14,300.00                                 | 8,835.00               | 9,615.46               | 7,764.54               | 116.99            | 48.12          | 0.86                        | 1,050.65                                | 8,425.85      | 3,205.67                   | 3,125.57                    | 80.11                         | 40.017               |                    |         |
| 14,400.00                                 | 8,835.00               | 9,615.83               | 7,764.55               | 118.96            | 48.12          | 0.88                        | 1,050.28                                | 8,425.85      | 3,110.79                   | 3,030.61                    | 80.18                         | 38.797               |                    |         |
| 14,500.00                                 | 8,835.00               | 9,616.19               | 7,764.56               | 120.93            | 48.13          | 0.90                        | 1,049.92                                | 8,425.85      | 3,016.24                   | 2,935.98                    | 80.26                         | 37.579               |                    |         |
| 14,600.00                                 | 8,835.00               | 9,616.56               | 7,764.57               | 122.90            | 48.13          | 0.92                        | 1,049.55                                | 8,425.86      | 2,922.05                   | 2,841.70                    | 80.36                         | 36.364               |                    |         |
| 14,700.00                                 | 8,835.00               | 9,616.92               | 7,764.58               | 124.88            | 48.14          | 0.94                        | 1,049.19                                | 8,425.86      | 2,828.27                   | 2,747.81                    | 80.46                         | 35.152               |                    |         |
| 14,800.00                                 | 8,835.00               | 9,617.28               | 7,764.59               | 126.86            | 48.14          | 0.96                        | 1,048.83                                | 8,425.86      | 2,734.92                   | 2,654.35                    | 80.57                         | 33.944               |                    |         |
| 14,900.00                                 | 8,835.00               | 9,617.64               | 7,764.59               | 128.84            | 48.15          | 0.98                        | 1,048.47                                | 8,425.87      | 2,642.06                   | 2,561.36                    | 80.70                         | 32.740               |                    |         |
| 15,000.00                                 | 8,835.00               | 9,618.00               | 7,764.60               | 130.82            | 48.16          | 1.00                        | 1,048.11                                | 8,425.87      | 2,549.73                   | 2,468.89                    | 80.84                         | 31.540               |                    |         |
| 15,100.00                                 | 8,835.00               | 9,618.36               | 7,764.61               | 132.80            | 48.16          | 1.02                        | 1,047.75                                | 8,425.87      | 2,458.01                   | 2,377.01                    | 81.00                         | 30.346               |                    |         |
| 15,200.00                                 | 8,835.00               | 9,618.71               | 7,764.62               | 134.79            | 48.17          | 1.04                        | 1,047.40                                | 8,425.88      | 2,366.96                   | 2,285.78                    | 81.18                         | 29.158               |                    |         |
| 15,300.00                                 | 8,835.00               | 9,619.07               | 7,764.63               | 136.78            | 48.17          | 1.07                        | 1,047.04                                | 8,425.88      | 2,276.66                   | 2,195.28                    | 81.38                         | 27.977               |                    |         |
| 15,400.00                                 | 8,835.00               | 9,619.42               | 7,764.64               | 138.76            | 48.18          | 1.09                        | 1,046.69                                | 8,425.88      | 2,187.21                   | 2,105.61                    | 81.60                         | 26.804               |                    |         |
| 15,500.00                                 | 8,835.00               | 9,619.78               | 7,764.65               | 140.76            | 48.19          | 1.11                        | 1,046.33                                | 8,425.89      | 2,098.70                   | 2,016.85                    | 81.85                         | 25.641               |                    |         |
| 15,600.00                                 | 8,835.00               | 9,620.13               | 7,764.66               | 142.75            | 48.19          | 1.13                        | 1,045.98                                | 8,425.89      | 2,011.28                   | 1,929.15                    | 82.13                         | 24.490               |                    |         |
| 15,700.00                                 | 8,835.00               | 9,620.48               | 7,764.67               | 144.74            | 48.20          | 1.15                        | 1,045.63                                | 8,425.89      | 1,925.08                   | 1,842.64                    | 82.44                         | 23.353               |                    |         |
| 15,800.00                                 | 8,835.00               | 9,620.83               | 7,764.68               | 146.74            | 48.20          | 1.17                        | 1,045.28                                | 8,425.90      | 1,840.27                   | 1,757.50                    | 82.78                         | 22.232               |                    |         |
| 15,900.00                                 | 8,835.00               | 9,621.18               | 7,764.69               | 148.73            | 48.21          | 1.19                        | 1,044.93                                | 8,425.90      | 1,757.07                   | 1,673.92                    | 83.15                         | 21.132               |                    |         |
| 16,000.00                                 | 8,835.00               | 9,621.53               | 7,764.69               | 150.73            | 48.21          | 1.21                        | 1,044.58                                | 8,425.90      | 1,675.70                   | 1,592.15                    | 83.55                         | 20.056               |                    |         |
| 16,100.00                                 | 8,835.00               | 9,621.88               | 7,764.70               | 152.73            | 48.22          | 1.23                        | 1,044.24                                | 8,425.91      | 1,596.45                   | 1,512.46                    | 83.99                         | 19.009               |                    |         |
| 16,200.00                                 | 8,835.00               | 9,622.22               | 7,764.71               | 154.73            | 48.23          | 1.25                        | 1,043.89                                | 8,425.91      | 1,519.65                   | 1,435.21                    | 84.44                         | 17.997               |                    |         |
| 16,300.00                                 | 8,835.00               | 9,622.57               | 7,764.72               | 156.73            | 48.23          | 1.27                        | 1,043.55                                | 8,425.91      | 1,445.69                   | 1,360.78                    | 84.91                         | 17.027               |                    |         |
| 16,400.00                                 | 8,835.00               | 9,622.91               | 7,764.73               | 158.74            | 48.24          | 1.29                        | 1,043.20                                | 8,425.92      | 1,375.02                   | 1,289.65                    | 85.37                         | 16.107               |                    |         |
| 16,500.00                                 | 8,835.00               | 9,623.25               | 7,764.74               | 160.74            | 48.24          | 1.31                        | 1,042.86                                | 8,425.92      | 1,308.19                   | 1,222.39                    | 85.81                         | 15.246               |                    |         |
| 16,600.00                                 | 8,835.00               | 9,623.59               | 7,764.75               | 162.74            | 48.25          | 1.33                        | 1,042.52                                | 8,425.92      | 1,245.81                   | 1,159.63                    | 86.18                         | 14.456               |                    |         |
| 16,700.00                                 | 8,835.00               | 9,623.94               | 7,764.76               | 164.75            | 48.25          | 1.34                        | 1,042.18                                | 8,425.93      | 1,188.58                   | 1,102.12                    | 86.47                         | 13.746               |                    |         |
| 16,800.00                                 | 8,835.00               | 9,624.28               | 7,764.76               | 166.76            | 48.26          | 1.36                        | 1,041.84                                | 8,425.93      | 1,137.28                   | 1,050.66                    | 86.63                         | 13.129               |                    |         |
| 16,900.00                                 | 8,835.00               | 9,624.61               | 7,764.77               | 168.77            | 48.27          | 1.38                        | 1,041.50                                | 8,425.93      | 1,092.75                   | 1,006.11                    | 86.63                         | 12.613               |                    |         |
| 17,000.00                                 | 8,835.00               | 9,624.95               | 7,764.78               | 170.77            | 48.27          | 1.40                        | 1,041.16                                | 8,425.93      | 1,055.83                   | 969.32                      | 86.51                         | 12.204               |                    |         |
| 17,100.00                                 | 8,835.00               | 9,625.29               | 7,764.79               | 172.78            | 48.28          | 1.42                        | 1,040.82                                | 8,425.94      | 1,027.35                   | 941.01                      | 86.34                         | 11.898               |                    |         |
| 17,200.00                                 | 8,835.00               | 9,625.63               | 7,764.80               | 174.79            | 48.28          | 1.44                        | 1,040.49                                | 8,425.94      | 1,008.03                   | 921.71                      | 86.33                         | 11.677               |                    |         |
| 17,300.00                                 | 8,835.00               | 9,625.96               | 7,764.81               | 176.81            | 48.29          | 1.46                        | 1,040.15                                | 8,425.94      | 998.40                     | 911.67                      | 86.74                         | 11.511               |                    |         |
| 17,346.61                                 | 8,835.00               | 9,626.12               | 7,764.81               | 177.74            | 48.29          | 1.47                        | 1,040.00                                | 8,425.95      | 997.32                     | 910.17                      | 87.14                         | 11.445 CC, ES        |                    |         |
| 17,400.00                                 | 8,835.00               | 9,626.29               | 7,764.82               | 178.82            | 48.29          | 1.48                        | 1,039.82                                | 8,425.95      | 998.74                     | 910.96                      | 87.79                         | 11.377               |                    |         |
| 17,500.00                                 | 8,835.00               | 9,626.63               | 7,764.82               | 180.83            | 48.30          | 1.50                        | 1,039.49                                | 8,425.95      | 1,009.04                   | 919.61                      | 89.43                         | 11.282               |                    |         |
| 17,600.00                                 | 8,835.00               | 9,626.96               | 7,764.83               | 182.84            | 48.30          | 1.52                        | 1,039.16                                | 8,425.95      | 1,029.00                   | 937.62                      | 91.39                         | 11.260 SF            |                    |         |
| 17,700.00                                 | 8,835.00               | 9,627.29               | 7,764.84               | 184.86            | 48.31          | 1.54                        | 1,038.82                                | 8,425.96      | 1,058.08                   | 964.76                      | 93.31                         | 11.339               |                    |         |
| 17,800.00                                 | 8,835.00               | 9,627.62               | 7,764.85               | 186.87            | 48.31          | 1.56                        | 1,038.49                                | 8,425.96      | 1,095.54                   | 1,000.54                    | 95.00                         | 11.532               |                    |         |
| 17,900.00                                 | 8,835.00               | 9,627.95               | 7,764.86               | 188.89            | 48.32          | 1.58                        | 1,038.17                                | 8,425.96      | 1,140.56                   | 1,044.22                    | 96.34                         | 11.839               |                    |         |
| 18,000.00                                 | 8,835.00               | 9,628.28               | 7,764.87               | 190.91            | 48.33          | 1.59                        | 1,037.84                                | 8,425.97      | 1,192.29                   | 1,094.96                    | 97.33                         | 12.250               |                    |         |
| 18,100.00                                 | 8,835.00               | 9,628.60               | 7,764.88               | 192.92            | 48.33          | 1.61                        | 1,037.51                                | 8,425.97      | 1,249.89                   | 1,151.90                    | 97.99                         | 12.755               |                    |         |
| 18,200.00                                 | 8,835.00               | 9,628.93               | 7,764.88               | 194.94            | 48.34          | 1.63                        | 1,037.18                                | 8,425.97      | 1,312.60                   | 1,214.20                    | 98.39                         | 13.340               |                    |         |
| 18,300.00                                 | 8,835.00               | 9,629.26               | 7,764.89               | 196.96            | 48.34          | 1.65                        | 1,036.86                                | 8,425.97      | 1,379.71                   | 1,281.12                    | 98.58                         | 13.996               |                    |         |
| 18,400.00                                 | 8,835.00               | 9,629.58               | 7,764.90               | 198.98            | 48.35          | 1.67                        | 1,036.53                                | 8,425.98      | 1,450.61                   | 1,352.00                    | 98.61                         | 14.711               |                    |         |
| 18,500.00                                 | 8,835.00               | 9,629.90               | 7,764.91               | 201.00            | 48.35          | 1.69                        | 1,036.21                                | 8,425.98      | 1,524.78                   | 1,426.25                    | 98.52                         | 15.477               |                    |         |
| 18,600.00                                 | 8,835.00               | 9,630.23               | 7,764.92               | 203.02            | 48.36          | 1.71                        | 1,035.89                                | 8,425.98      | 1,601.75                   | 1,503.41                    | 98.35                         | 16.287               |                    |         |
| 18,700.00                                 | 8,835.00               | 9,630.55               | 7,764.93               | 205.04            | 48.36          | 1.72                        | 1,035.57                                | 8,425.99      | 1,681.16                   | 1,583.04                    | 98.12                         | 17.134               |                    |         |
| 18,800.00                                 | 8,835.00               | 9,630.87               | 7,764.93               | 207.06            | 48.37          | 1.74                        | 1,035.25                                | 8,425.99      | 1,762.66                   | 1,664.80                    | 97.86                         | 18.012               |                    |         |
| 18,900.00                                 | 8,835.00               | 9,631.19               | 7,764.94               | 209.08            | 48.37          | 1.76                        | 1,034.93                                | 8,425.99      | 1,845.98                   | 1,748.40                    | 97.58                         | 18.918               |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 8H - Original Hole - Actuals |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 5.00 ft |
|--------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|---------|
| Survey Program: 81-GYRO-NS, 7138-MWD+IGRF                                                        |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 0.00 ft |
| Reference                                                                                        |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                           | Warning |
| Measured Depth<br>(ft)                                                                           | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |         |
| 19,000.00                                                                                        | 8,835.00               | 9,631.51               | 7,764.95               | 211.10            | 48.38          | 1.78                        | 1,034.61                                | 8,426.00      | 1,930.89                   | 1,833.60                    | 97.29                         | 19.847                    |         |
| 19,100.00                                                                                        | 8,835.00               | 9,631.82               | 7,764.96               | 213.12            | 48.38          | 1.80                        | 1,034.29                                | 8,426.00      | 2,017.17                   | 1,920.18                    | 97.00                         | 20.796                    |         |
| 19,200.00                                                                                        | 8,835.00               | 9,632.14               | 7,764.97               | 215.15            | 48.39          | 1.82                        | 1,033.97                                | 8,426.00      | 2,104.68                   | 2,007.97                    | 96.71                         | 21.762                    |         |
| 19,308.27                                                                                        | 8,835.00               | 9,632.48               | 7,764.98               | 217.34            | 48.39          | 1.84                        | 1,033.63                                | 8,426.00      | 2,200.62                   | 2,104.20                    | 96.41                         | 22.825                    |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 4452-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                                          | 0.00                | 0.00                | 0.00                | 0.50            | 5.02        | 65.66                 | 3,104.84                          | 6,862.82   | 7,532.72             |                       |                         |                   |                    |         |
| 100.00                                        | 100.00              | 26.32               | 26.32               | 0.52            | 5.03        | 65.66                 | 3,104.87                          | 6,862.84   | 7,532.53             | 7,526.98              | 5.54                    | 1,358.969         |                    |         |
| 200.00                                        | 200.00              | 100.00              | 100.00              | 0.70            | 5.03        | 65.65                 | 3,105.30                          | 6,863.03   | 7,532.97             | 7,527.25              | 5.73                    | 1,314.928         |                    |         |
| 300.00                                        | 300.00              | 213.72              | 213.71              | 0.99            | 5.05        | 65.65                 | 3,106.12                          | 6,863.35   | 7,533.55             | 7,527.51              | 6.04                    | 1,247.224         |                    |         |
| 400.00                                        | 400.00              | 278.77              | 278.76              | 1.31            | 5.08        | 65.65                 | 3,106.84                          | 6,863.51   | 7,534.19             | 7,527.80              | 6.39                    | 1,178.854         |                    |         |
| 500.00                                        | 500.00              | 392.99              | 392.96              | 1.65            | 5.16        | 65.63                 | 3,108.72                          | 6,863.67   | 7,535.01             | 7,528.21              | 6.80                    | 1,107.456         |                    |         |
| 600.00                                        | 600.00              | 507.17              | 507.13              | 1.99            | 5.26        | 65.62                 | 3,110.31                          | 6,863.62   | 7,535.55             | 7,528.30              | 7.25                    | 1,038.888         |                    |         |
| 700.00                                        | 700.00              | 576.27              | 576.23              | 2.34            | 5.34        | 65.62                 | 3,111.23                          | 6,863.72   | 7,536.22             | 7,528.55              | 7.68                    | 981.390           |                    |         |
| 800.00                                        | 800.00              | 675.80              | 675.74              | 2.69            | 5.47        | 65.60                 | 3,112.95                          | 6,863.96   | 7,537.15             | 7,528.99              | 8.16                    | 923.792           |                    |         |
| 900.00                                        | 900.00              | 788.20              | 788.12              | 3.04            | 5.64        | 65.59                 | 3,115.06                          | 6,863.97   | 7,537.94             | 7,529.26              | 8.68                    | 868.433           |                    |         |
| 1,000.00                                      | 1,000.00            | 858.90              | 858.82              | 3.40            | 5.75        | 65.58                 | 3,116.22                          | 6,864.11   | 7,538.81             | 7,529.65              | 9.15                    | 823.845           |                    |         |
| 1,100.00                                      | 1,100.00            | 1,100.00            | 975.00              | 3.75            | 6.21        | 65.57                 | 3,118.50                          | 6,864.35   | 7,539.81             | 7,529.85              | 9.96                    | 756.712           |                    |         |
| 1,200.00                                      | 1,200.00            | 1,193.56            | 1,193.41            | 4.11            | 6.41        | 65.54                 | 3,122.09                          | 6,862.56   | 7,539.56             | 7,529.04              | 10.52                   | 716.874           |                    |         |
| 1,300.00                                      | 1,300.00            | 1,315.79            | 1,315.61            | 4.46            | 6.68        | 65.52                 | 3,123.48                          | 6,860.74   | 7,538.67             | 7,527.52              | 11.15                   | 676.318           |                    |         |
| 1,400.00                                      | 1,400.00            | 1,400.83            | 1,400.65            | 4.82            | 6.88        | 65.51                 | 3,124.11                          | 6,859.63   | 7,537.78             | 7,526.08              | 11.70                   | 644.140           |                    |         |
| 1,500.00                                      | 1,500.00            | 1,526.30            | 1,526.10            | 5.18            | 7.19        | 65.50                 | 3,125.20                          | 6,857.78   | 7,536.79             | 7,524.42              | 12.36                   | 609.531           |                    |         |
| 1,600.00                                      | 1,600.00            | 1,627.12            | 1,626.90            | 5.53            | 7.45        | 65.49                 | 3,126.42                          | 6,855.94   | 7,535.64             | 7,522.66              | 12.98                   | 580.615           |                    |         |
| 1,700.00                                      | 1,700.00            | 1,700.00            | 1,764.64            | 5.89            | 7.64        | 65.47                 | 3,127.99                          | 6,853.19   | 7,534.31             | 7,520.78              | 13.53                   | 557.030           |                    |         |
| 1,800.00                                      | 1,800.00            | 8,019.91            | 4,987.55            | 6.25            | 50.60       | 91.38                 | -163.37                           | 6,790.81   | 7,528.65             | 7,475.85              | 52.80                   | 142.600           |                    |         |
| 1,900.00                                      | 1,900.00            | 8,019.61            | 4,987.56            | 6.61            | 50.60       | 91.38                 | -163.06                           | 6,790.81   | 7,486.07             | 7,432.75              | 53.33                   | 140.384           |                    |         |
| 2,000.00                                      | 2,000.00            | 8,019.30            | 4,987.56            | 6.96            | 50.60       | 91.37                 | -162.76                           | 6,790.82   | 7,444.60             | 7,390.74              | 53.86                   | 138.229           |                    |         |
| 2,100.00                                      | 2,099.99            | 8,018.45            | 4,987.56            | 7.32            | 50.58       | 104.57                | -161.91                           | 6,790.84   | 7,404.44             | 7,350.06              | 54.38                   | 136.157           |                    |         |
| 2,200.00                                      | 2,199.96            | 8,016.52            | 4,987.57            | 7.68            | 50.56       | 104.96                | -159.97                           | 6,790.88   | 7,365.82             | 7,310.93              | 54.89                   | 134.188           |                    |         |
| 2,300.00                                      | 2,299.86            | 8,013.48            | 4,987.59            | 8.04            | 50.52       | 105.32                | -156.94                           | 6,790.95   | 7,328.78             | 7,273.39              | 55.39                   | 132.317           |                    |         |
| 2,400.00                                      | 2,399.68            | 8,009.34            | 4,987.61            | 8.39            | 50.46       | 105.65                | -152.80                           | 6,791.04   | 7,293.36             | 7,237.49              | 55.87                   | 130.544           |                    |         |
| 2,500.00                                      | 2,499.37            | 8,004.09            | 4,987.63            | 8.75            | 50.39       | 105.95                | -147.55                           | 6,791.16   | 7,259.58             | 7,203.24              | 56.33                   | 128.867           |                    |         |
| 2,600.00                                      | 2,598.90            | 7,997.73            | 4,987.67            | 9.11            | 50.30       | 106.22                | -141.19                           | 6,791.31   | 7,227.47             | 7,170.69              | 56.78                   | 127.283           |                    |         |
| 2,700.00                                      | 2,698.26            | 7,995.18            | 4,987.68            | 9.46            | 50.26       | 106.51                | -138.64                           | 6,791.36   | 7,197.06             | 7,139.78              | 57.28                   | 125.650           |                    |         |
| 2,800.00                                      | 2,797.40            | 7,978.44            | 4,987.78            | 9.82            | 50.04       | 106.66                | -121.91                           | 6,791.77   | 7,168.38             | 7,110.79              | 57.59                   | 124.480           |                    |         |
| 2,900.00                                      | 2,896.30            | 7,959.52            | 4,987.90            | 10.18           | 49.78       | 106.77                | -102.99                           | 6,792.21   | 7,141.43             | 7,083.57              | 57.86                   | 123.420           |                    |         |
| 3,000.00                                      | 2,994.93            | 7,938.41            | 4,988.04            | 10.54           | 49.49       | 106.85                | -81.90                            | 6,792.69   | 7,116.23             | 7,058.13              | 58.11                   | 122.470           |                    |         |
| 3,100.00                                      | 3,093.26            | 7,915.12            | 4,988.20            | 10.90           | 49.17       | 106.89                | -58.61                            | 6,793.21   | 7,092.79             | 7,034.48              | 58.32                   | 121.628           |                    |         |
| 3,195.07                                      | 3,186.42            | 7,890.94            | 4,988.38            | 11.24           | 48.84       | 106.89                | -34.43                            | 6,793.72   | 7,072.14             | 7,013.66              | 58.48                   | 120.926           |                    |         |
| 3,200.00                                      | 3,191.25            | 7,889.73            | 4,988.38            | 11.26           | 48.82       | 106.88                | -33.22                            | 6,793.74   | 7,071.11             | 7,012.62              | 58.49                   | 120.890           |                    |         |
| 3,300.00                                      | 3,289.08            | 7,870.14            | 4,988.53            | 11.62           | 48.55       | 106.73                | -13.64                            | 6,794.15   | 7,050.95             | 6,992.21              | 58.74                   | 120.032           |                    |         |
| 3,400.00                                      | 3,386.91            | 7,850.56            | 4,988.67            | 11.98           | 48.29       | 106.57                | 5.93                              | 6,794.56   | 7,032.09             | 6,973.10              | 58.99                   | 119.212           |                    |         |
| 3,500.00                                      | 3,484.74            | 7,830.98            | 4,988.81            | 12.35           | 48.02       | 106.41                | 25.51                             | 6,794.98   | 7,014.55             | 6,955.32              | 59.23                   | 118.432           |                    |         |
| 3,600.00                                      | 3,582.58            | 7,800.00            | 4,989.36            | 12.72           | 47.66       | 105.80                | 100.17                            | 6,796.27   | 6,998.24             | 6,976.97              | 59.48                   | 117.518           |                    |         |
| 3,700.00                                      | 3,680.41            | 7,672.84            | 4,989.92            | 13.09           | 45.86       | 105.13                | 183.63                            | 6,797.18   | 6,983.26             | 6,925.16              | 58.10                   | 120.197           |                    |         |
| 3,800.00                                      | 3,778.24            | 7,646.17            | 4,989.96            | 13.46           | 45.50       | 104.91                | 210.30                            | 6,797.31   | 6,969.36             | 6,911.13              | 58.22                   | 119.702           |                    |         |
| 3,900.00                                      | 3,876.08            | 7,620.52            | 4,989.89            | 13.83           | 45.15       | 104.70                | 235.95                            | 6,797.44   | 6,956.79             | 6,898.43              | 58.35                   | 119.217           |                    |         |
| 4,000.00                                      | 3,973.91            | 7,597.69            | 4,989.74            | 14.21           | 44.84       | 104.52                | 258.77                            | 6,797.55   | 6,945.57             | 6,887.05              | 58.52                   | 118.695           |                    |         |
| 4,100.00                                      | 4,071.74            | 7,579.59            | 4,989.62            | 14.58           | 44.60       | 104.37                | 276.88                            | 6,797.63   | 6,935.72             | 6,876.98              | 58.74                   | 118.083           |                    |         |
| 4,200.00                                      | 4,169.57            | 7,561.35            | 4,989.51            | 14.96           | 44.35       | 104.22                | 295.11                            | 6,797.72   | 6,927.24             | 6,868.30              | 58.95                   | 117.518           |                    |         |
| 4,300.00                                      | 4,267.41            | 7,542.99            | 4,989.41            | 15.33           | 44.10       | 104.07                | 313.47                            | 6,797.81   | 6,920.15             | 6,861.01              | 59.15                   | 117.000           |                    |         |
| 4,400.00                                      | 4,365.24            | 7,524.50            | 4,989.33            | 15.71           | 43.85       | 103.92                | 331.96                            | 6,797.91   | 6,914.45             | 6,855.11              | 59.34                   | 116.527           |                    |         |
| 4,500.00                                      | 4,463.07            | 7,508.00            | 4,989.26            | 16.09           | 43.62       | 103.79                | 348.46                            | 6,797.99   | 6,910.14             | 6,850.59              | 59.55                   | 116.045           |                    |         |
| 4,600.00                                      | 4,560.90            | 7,508.00            | 4,989.26            | 16.47           | 43.62       | 103.79                | 348.46                            | 6,797.99   | 6,907.25             | 6,847.27              | 59.97                   | 115.176           |                    |         |
| 4,700.00                                      | 4,658.74            | 7,483.10            | 4,989.18            | 16.85           | 43.29       | 103.58                | 373.37                            | 6,798.15   | 6,905.73             | 6,845.68              | 60.05                   | 114.996           |                    |         |
| 4,755.88                                      | 4,713.41            | 7,476.49            | 4,989.16            | 17.06           | 43.20       | 103.53                | 379.97                            | 6,798.21   | 6,905.51             | 6,845.32              | 60.19                   | 114.725           |                    |         |
| 4,800.00                                      | 4,756.57            | 7,471.27            | 4,989.14            | 17.23           | 43.13       | 103.49                | 385.19                            | 6,798.25   | 6,905.64             | 6,845.34              | 60.30                   | 114.522           |                    |         |
| 4,900.00                                      | 4,854.40            | 7,459.41            | 4,989.11            | 17.61           | 42.97       | 103.39                | 397.05                            | 6,798.36   | 6,906.98             | 6,846.44              | 60.54                   | 114.093           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 4452-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,000.00                                      | 4,952.23            | 7,447.53            | 4,989.09            | 17.99           | 42.81       | 103.30                | 408.94                            | 6,798.49   | 6,909.72             | 6,848.95              | 60.77                   | 113.709           |                    |         |
| 5,100.00                                      | 5,050.07            | 7,435.61            | 4,989.06            | 18.37           | 42.65       | 103.20                | 420.85                            | 6,798.63   | 6,913.87             | 6,852.89              | 60.99                   | 113.369           |                    |         |
| 5,200.00                                      | 5,147.90            | 7,420.00            | 4,989.04            | 18.75           | 16.22       | 103.07                | 437.04                            | 6,798.85   | 6,919.45             | 6,887.56              | 31.89                   | 217.009           |                    |         |
| 5,300.00                                      | 5,245.73            | 7,410.13            | 4,989.02            | 19.14           | 42.30       | 102.99                | 446.33                            | 6,798.97   | 6,926.40             | 6,865.03              | 61.37                   | 112.858           |                    |         |
| 5,400.00                                      | 5,343.56            | 7,383.79            | 4,988.99            | 19.52           | 41.95       | 102.78                | 472.67                            | 6,799.34   | 6,934.75             | 6,873.38              | 61.37                   | 112.996           |                    |         |
| 5,500.00                                      | 5,441.40            | 7,357.52            | 4,988.94            | 19.90           | 41.60       | 102.56                | 498.93                            | 6,799.68   | 6,944.45             | 6,883.08              | 61.36                   | 113.170           |                    |         |
| 5,600.00                                      | 5,539.23            | 7,331.34            | 4,988.88            | 20.29           | 41.25       | 102.35                | 525.12                            | 6,799.99   | 6,955.49             | 6,894.15              | 61.35                   | 113.382           |                    |         |
| 5,700.00                                      | 5,637.06            | 7,309.43            | 4,988.83            | 20.67           | 40.96       | 102.17                | 547.02                            | 6,800.24   | 6,967.89             | 6,906.51              | 61.38                   | 113.527           |                    |         |
| 5,800.00                                      | 5,734.90            | 7,291.19            | 4,988.81            | 21.05           | 40.71       | 102.02                | 565.26                            | 6,800.45   | 6,981.63             | 6,920.19              | 61.45                   | 113.620           |                    |         |
| 5,900.00                                      | 5,832.73            | 7,272.77            | 4,988.80            | 21.44           | 40.47       | 101.87                | 583.68                            | 6,800.67   | 6,996.73             | 6,935.23              | 61.51                   | 113.755           |                    |         |
| 6,000.00                                      | 5,930.56            | 7,254.18            | 4,988.81            | 21.83           | 40.22       | 101.72                | 602.26                            | 6,800.90   | 7,013.17             | 6,951.62              | 61.56                   | 113.933           |                    |         |
| 6,100.00                                      | 6,028.39            | 7,235.59            | 4,988.87            | 22.21           | 24.98       | 101.33                | 650.61                            | 6,801.43   | 7,030.93             | 6,984.22              | 46.70                   | 150.543           |                    |         |
| 6,200.00                                      | 6,126.23            | 7,216.99            | 4,988.91            | 22.60           | 39.49       | 101.28                | 657.06                            | 6,801.57   | 7,050.02             | 6,988.63              | 61.40                   | 114.829           |                    |         |
| 6,300.00                                      | 6,224.06            | 7,198.39            | 4,988.92            | 22.98           | 38.74       | 100.82                | 713.44                            | 6,802.00   | 7,070.32             | 7,009.39              | 60.93                   | 116.047           |                    |         |
| 6,400.00                                      | 6,321.89            | 7,179.79            | 4,988.89            | 23.37           | 38.40       | 100.61                | 739.46                            | 6,802.10   | 7,091.84             | 7,030.99              | 60.85                   | 116.553           |                    |         |
| 6,500.00                                      | 6,419.72            | 7,161.19            | 4,988.86            | 23.76           | 38.17       | 100.47                | 757.26                            | 6,802.17   | 7,114.65             | 7,053.78              | 60.87                   | 116.890           |                    |         |
| 6,600.00                                      | 6,517.56            | 7,142.59            | 4,988.82            | 24.14           | 37.93       | 100.32                | 774.97                            | 6,802.24   | 7,138.73             | 7,077.85              | 60.88                   | 117.261           |                    |         |
| 6,700.00                                      | 6,615.39            | 7,123.99            | 4,988.77            | 24.53           | 37.70       | 100.18                | 792.60                            | 6,802.32   | 7,164.09             | 7,103.20              | 60.88                   | 117.666           |                    |         |
| 6,800.00                                      | 6,713.22            | 7,105.39            | 4,988.72            | 24.92           | 37.47       | 100.04                | 810.16                            | 6,802.40   | 7,190.69             | 7,129.81              | 60.88                   | 118.105           |                    |         |
| 6,900.00                                      | 6,811.05            | 7,086.79            | 4,988.65            | 25.30           | 37.24       | 99.90                 | 827.46                            | 6,802.49   | 7,218.54             | 7,157.66              | 60.88                   | 118.570           |                    |         |
| 7,000.00                                      | 6,908.89            | 7,068.19            | 4,988.59            | 25.69           | 37.02       | 99.76                 | 844.45                            | 6,802.57   | 7,247.61             | 7,186.74              | 60.87                   | 119.060           |                    |         |
| 7,100.00                                      | 7,006.72            | 7,049.59            | 4,988.51            | 26.08           | 36.80       | 99.62                 | 861.35                            | 6,802.67   | 7,277.89             | 7,217.03              | 60.86                   | 119.582           |                    |         |
| 7,200.00                                      | 7,104.55            | 7,030.99            | 4,988.43            | 26.47           | 36.58       | 99.49                 | 878.18                            | 6,802.76   | 7,309.37             | 7,248.53              | 60.84                   | 120.135           |                    |         |
| 7,216.87                                      | 7,121.05            | 7,012.39            | 4,988.41            | 26.53           | 36.54       | 99.46                 | 881.02                            | 6,802.78   | 7,314.80             | 7,253.96              | 60.84                   | 120.231           |                    |         |
| 7,300.00                                      | 7,202.57            | 7,000.00            | 4,988.34            | 26.85           | 36.37       | 99.78                 | 894.20                            | 6,802.86   | 7,341.89             | 7,281.07              | 60.83                   | 120.701           |                    |         |
| 7,400.00                                      | 7,301.06            | 6,988.39            | 4,988.26            | 27.23           | 36.19       | 100.19                | 908.05                            | 6,802.95   | 7,375.18             | 7,314.36              | 60.83                   | 121.251           |                    |         |
| 7,500.00                                      | 7,399.97            | 6,970.00            | 4,988.22            | 27.61           | 36.10       | 100.67                | 914.44                            | 6,802.99   | 7,409.21             | 7,348.30              | 60.91                   | 121.650           |                    |         |
| 7,600.00                                      | 7,499.23            | 6,951.40            | 4,988.22            | 27.98           | 36.10       | 101.22                | 914.44                            | 6,802.99   | 7,443.97             | 7,382.92              | 61.05                   | 121.926           |                    |         |
| 7,700.00                                      | 7,598.77            | 6,932.80            | 4,988.22            | 28.34           | 36.10       | 101.78                | 914.44                            | 6,802.99   | 7,479.43             | 7,418.24              | 61.19                   | 122.238           |                    |         |
| 7,800.00                                      | 7,698.53            | 6,914.20            | 4,988.22            | 28.70           | 36.10       | 102.34                | 914.44                            | 6,802.99   | 7,515.56             | 7,454.25              | 61.31                   | 122.584           |                    |         |
| 7,900.00                                      | 7,798.44            | 6,895.60            | 4,988.22            | 29.05           | 36.10       | 102.92                | 914.44                            | 6,802.99   | 7,552.32             | 7,490.90              | 61.42                   | 122.963           |                    |         |
| 8,000.00                                      | 7,898.42            | 6,877.00            | 4,988.22            | 29.39           | 36.10       | 103.51                | 914.44                            | 6,802.99   | 7,589.68             | 7,528.16              | 61.52                   | 123.373           |                    |         |
| 8,013.58                                      | 7,912.00            | 6,858.40            | 4,988.22            | 29.43           | 36.10       | 90.81                 | 914.44                            | 6,802.99   | 7,594.79             | 7,533.26              | 61.53                   | 123.432           |                    |         |
| 8,100.00                                      | 7,998.42            | 6,839.80            | 4,988.22            | 29.73           | 36.10       | 90.81                 | 914.44                            | 6,802.99   | 7,627.82             | 7,566.21              | 61.61                   | 123.812           |                    |         |
| 8,200.00                                      | 8,098.42            | 6,821.20            | 4,988.22            | 30.07           | 36.10       | 90.81                 | 914.44                            | 6,802.99   | 7,667.06             | 7,605.37              | 61.69                   | 124.277           |                    |         |
| 8,300.00                                      | 8,198.42            | 6,802.60            | 4,988.22            | 30.41           | 36.10       | 90.81                 | 914.44                            | 6,802.99   | 7,707.41             | 7,645.63              | 61.77                   | 124.767           |                    |         |
| 8,363.62                                      | 8,262.04            | 6,784.00            | 4,988.22            | 30.62           | 36.10       | 90.81                 | 914.44                            | 6,802.99   | 7,733.64             | 7,671.81              | 61.82                   | 125.092           |                    |         |
| 8,400.00                                      | 8,298.40            | 6,765.40            | 4,988.22            | 30.75           | 36.10       | 1.12                  | 914.44                            | 6,802.99   | 7,747.77             | 7,685.93              | 61.85                   | 125.276           |                    |         |
| 8,450.00                                      | 8,348.10            | 6,746.80            | 4,988.22            | 30.91           | 36.10       | 1.09                  | 914.44                            | 6,802.99   | 7,763.92             | 7,702.06              | 61.87                   | 125.493           |                    |         |
| 8,500.00                                      | 8,397.14            | 6,728.20            | 4,988.22            | 31.07           | 36.10       | 1.07                  | 914.44                            | 6,802.99   | 7,776.19             | 7,714.31              | 61.88                   | 125.659           |                    |         |
| 8,550.00                                      | 8,445.15            | 6,709.60            | 4,988.22            | 31.23           | 36.10       | 1.05                  | 914.44                            | 6,802.99   | 7,784.50             | 7,722.60              | 61.89                   | 125.774           |                    |         |
| 8,600.00                                      | 8,491.77            | 6,691.00            | 4,988.22            | 31.38           | 36.10       | 1.04                  | 914.44                            | 6,802.99   | 7,788.79             | 7,726.90              | 61.90                   | 125.839           |                    |         |
| 8,650.00                                      | 8,536.65            | 6,672.40            | 4,988.22            | 31.52           | 36.10       | 1.04                  | 914.44                            | 6,802.99   | 7,789.05             | 7,727.16              | 61.89                   | 125.854           |                    |         |
| 8,700.00                                      | 8,579.43            | 6,653.80            | 4,988.22            | 31.66           | 36.10       | 1.05                  | 914.44                            | 6,802.99   | 7,785.28             | 7,723.40              | 61.88                   | 125.822           |                    |         |
| 8,750.00                                      | 8,619.80            | 6,635.20            | 4,988.22            | 31.80           | 36.10       | 1.06                  | 914.44                            | 6,802.99   | 7,777.49             | 7,715.63              | 61.85                   | 125.742           |                    |         |
| 8,800.00                                      | 8,657.44            | 6,616.60            | 4,988.22            | 31.93           | 36.10       | 1.09                  | 914.44                            | 6,802.99   | 7,765.73             | 7,703.91              | 61.82                   | 125.615           |                    |         |
| 8,850.00                                      | 8,692.08            | 6,598.00            | 4,988.22            | 32.06           | 36.10       | 1.12                  | 914.44                            | 6,802.99   | 7,750.08             | 7,688.29              | 61.78                   | 125.442           |                    |         |
| 8,900.00                                      | 8,723.44            | 6,579.40            | 4,988.22            | 32.19           | 36.10       | 1.16                  | 914.44                            | 6,802.99   | 7,730.62             | 7,668.89              | 61.73                   | 125.224           |                    |         |
| 8,950.00                                      | 8,751.29            | 6,560.80            | 4,988.22            | 32.34           | 36.10       | 1.21                  | 914.44                            | 6,802.99   | 7,707.49             | 7,645.81              | 61.68                   | 124.960           |                    |         |
| 9,000.00                                      | 8,775.42            | 6,542.20            | 4,988.22            | 32.50           | 36.10       | 1.28                  | 914.44                            | 6,802.99   | 7,680.82             | 7,619.20              | 61.62                   | 124.651           |                    |         |
| 9,050.00                                      | 8,795.64            | 6,523.60            | 4,988.22            | 32.67           | 36.10       | 1.37                  | 914.44                            | 6,802.99   | 7,650.79             | 7,589.23              | 61.55                   | 124.298           |                    |         |
| 9,100.00                                      | 8,811.80            | 6,505.00            | 4,988.22            | 32.87           | 36.10       | 1.48                  | 914.44                            | 6,802.99   | 7,617.57             | 7,556.09              | 61.48                   | 123.901           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 4452-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,150.00                                      | 8,823.77            | 6,942.00            | 4,988.22            | 33.10           | 36.10       | 1.62                  | 914.44                            | 6,802.99   | 7,581.39             | 7,519.98              | 61.41                   | 123.461           |                    |         |
| 9,200.00                                      | 8,831.47            | 6,942.00            | 4,988.22            | 33.34           | 36.10       | 1.81                  | 914.44                            | 6,802.99   | 7,542.48             | 7,481.15              | 61.33                   | 122.978           |                    |         |
| 9,250.00                                      | 8,834.84            | 6,942.00            | 4,988.22            | 33.60           | 36.10       | 2.06                  | 914.44                            | 6,802.99   | 7,501.09             | 7,439.83              | 61.26                   | 122.454           |                    |         |
| 9,263.62                                      | 8,835.00            | 6,942.00            | 4,988.22            | 33.67           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 7,489.42             | 7,428.18              | 61.24                   | 122.299           |                    |         |
| 9,300.00                                      | 8,835.00            | 6,942.00            | 4,988.22            | 33.88           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 7,458.07             | 7,396.89              | 61.18                   | 121.903           |                    |         |
| 9,400.00                                      | 8,835.00            | 6,942.00            | 4,988.22            | 34.53           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 7,372.12             | 7,311.11              | 61.02                   | 120.818           |                    |         |
| 9,500.00                                      | 8,835.00            | 6,942.00            | 4,988.22            | 35.30           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 7,286.54             | 7,225.68              | 60.86                   | 119.730           |                    |         |
| 9,600.00                                      | 8,835.00            | 6,942.00            | 4,988.22            | 36.17           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 7,201.32             | 7,140.62              | 60.70                   | 118.637           |                    |         |
| 9,700.00                                      | 8,835.00            | 6,942.00            | 4,988.22            | 37.13           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 7,116.49             | 7,055.95              | 60.55                   | 117.539           |                    |         |
| 9,800.00                                      | 8,835.00            | 6,942.00            | 4,988.22            | 38.18           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 7,032.06             | 6,971.67              | 60.39                   | 116.436           |                    |         |
| 9,900.00                                      | 8,835.00            | 6,942.00            | 4,988.22            | 39.31           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,948.04             | 6,887.80              | 60.25                   | 115.328           |                    |         |
| 10,000.00                                     | 8,835.00            | 6,942.00            | 4,988.22            | 40.51           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,864.45             | 6,804.35              | 60.10                   | 114.214           |                    |         |
| 10,100.00                                     | 8,835.00            | 6,942.00            | 4,988.22            | 41.78           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,781.31             | 6,721.34              | 59.96                   | 113.094           |                    |         |
| 10,200.00                                     | 8,835.00            | 6,942.00            | 4,988.22            | 43.10           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,698.62             | 6,638.79              | 59.83                   | 111.968           |                    |         |
| 10,300.00                                     | 8,835.00            | 6,942.00            | 4,988.22            | 44.49           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,616.41             | 6,556.72              | 59.70                   | 110.834           |                    |         |
| 10,400.00                                     | 8,835.00            | 6,942.00            | 4,988.22            | 45.92           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,534.70             | 6,475.13              | 59.57                   | 109.694           |                    |         |
| 10,500.00                                     | 8,835.00            | 6,942.00            | 4,988.22            | 47.39           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,453.51             | 6,394.05              | 59.45                   | 108.545           |                    |         |
| 10,600.00                                     | 8,835.00            | 6,942.00            | 4,988.22            | 48.91           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,372.85             | 6,313.50              | 59.34                   | 107.388           |                    |         |
| 10,700.00                                     | 8,835.00            | 6,942.00            | 4,988.22            | 50.47           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,292.74             | 6,233.50              | 59.24                   | 106.223           |                    |         |
| 10,800.00                                     | 8,835.00            | 6,942.00            | 4,988.22            | 52.06           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,213.21             | 6,154.07              | 59.15                   | 105.050           |                    |         |
| 10,900.00                                     | 8,835.00            | 6,942.00            | 4,988.22            | 53.68           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,134.28             | 6,075.22              | 59.06                   | 103.867           |                    |         |
| 11,000.00                                     | 8,835.00            | 6,917.61            | 4,987.98            | 55.32           | 35.79       | 1.77                  | 938.82                            | 6,803.16   | 6,055.86             | 5,997.13              | 58.72                   | 103.125           |                    |         |
| 11,100.00                                     | 8,835.00            | 6,917.04            | 4,987.97            | 57.00           | 35.78       | 1.76                  | 939.39                            | 6,803.17   | 5,978.19             | 5,919.54              | 58.65                   | 101.926           |                    |         |
| 11,200.00                                     | 8,835.00            | 6,916.47            | 4,987.97            | 58.70           | 35.77       | 1.75                  | 939.96                            | 6,803.17   | 5,901.19             | 5,842.60              | 58.59                   | 100.717           |                    |         |
| 11,300.00                                     | 8,835.00            | 6,915.90            | 4,987.96            | 60.41           | 35.76       | 1.74                  | 940.53                            | 6,803.17   | 5,824.90             | 5,766.35              | 58.54                   | 99.497            |                    |         |
| 11,400.00                                     | 8,835.00            | 6,915.33            | 4,987.95            | 62.15           | 35.76       | 1.74                  | 941.11                            | 6,803.18   | 5,749.33             | 5,690.82              | 58.51                   | 98.267            |                    |         |
| 11,500.00                                     | 8,835.00            | 6,914.75            | 4,987.94            | 63.91           | 35.75       | 1.73                  | 941.69                            | 6,803.18   | 5,674.51             | 5,616.03              | 58.48                   | 97.027            |                    |         |
| 11,600.00                                     | 8,835.00            | 6,914.17            | 4,987.93            | 65.69           | 35.74       | 1.72                  | 942.27                            | 6,803.19   | 5,600.49             | 5,542.01              | 58.47                   | 95.776            |                    |         |
| 11,700.00                                     | 8,835.00            | 6,913.58            | 4,987.92            | 67.47           | 35.73       | 1.71                  | 942.85                            | 6,803.19   | 5,527.28             | 5,468.80              | 58.48                   | 94.515            |                    |         |
| 11,800.00                                     | 8,835.00            | 6,913.00            | 4,987.91            | 69.28           | 35.73       | 1.70                  | 943.44                            | 6,803.20   | 5,454.92             | 5,396.42              | 58.50                   | 93.245            |                    |         |
| 11,900.00                                     | 8,835.00            | 6,912.41            | 4,987.91            | 71.09           | 35.72       | 1.69                  | 944.03                            | 6,803.20   | 5,383.44             | 5,324.91              | 58.54                   | 91.965            |                    |         |
| 12,000.00                                     | 8,835.00            | 6,911.81            | 4,987.90            | 72.92           | 35.71       | 1.68                  | 944.62                            | 6,803.21   | 5,312.89             | 5,254.30              | 58.59                   | 90.676            |                    |         |
| 12,100.00                                     | 8,835.00            | 6,911.22            | 4,987.89            | 74.76           | 35.70       | 1.67                  | 945.22                            | 6,803.21   | 5,243.29             | 5,184.63              | 58.66                   | 89.379            |                    |         |
| 12,200.00                                     | 8,835.00            | 6,910.62            | 4,987.88            | 76.61           | 35.70       | 1.66                  | 945.82                            | 6,803.22   | 5,174.70             | 5,115.94              | 58.75                   | 88.076            |                    |         |
| 12,300.00                                     | 8,835.00            | 6,910.02            | 4,987.87            | 78.47           | 35.69       | 1.66                  | 946.42                            | 6,803.22   | 5,107.13             | 5,048.27              | 58.86                   | 86.766            |                    |         |
| 12,400.00                                     | 8,835.00            | 6,909.41            | 4,987.86            | 80.34           | 35.68       | 1.65                  | 947.02                            | 6,803.23   | 5,040.65             | 4,981.66              | 58.99                   | 85.451            |                    |         |
| 12,500.00                                     | 8,835.00            | 6,908.81            | 4,987.85            | 82.22           | 35.67       | 1.64                  | 947.63                            | 6,803.23   | 4,975.28             | 4,916.15              | 59.14                   | 84.132            |                    |         |
| 12,600.00                                     | 8,835.00            | 6,908.20            | 4,987.84            | 84.11           | 35.67       | 1.63                  | 948.24                            | 6,803.24   | 4,911.09             | 4,851.78              | 59.30                   | 82.811            |                    |         |
| 12,700.00                                     | 8,835.00            | 6,907.58            | 4,987.83            | 86.00           | 35.66       | 1.62                  | 948.85                            | 6,803.24   | 4,848.10             | 4,788.61              | 59.49                   | 81.490            |                    |         |
| 12,800.00                                     | 8,835.00            | 6,906.96            | 4,987.82            | 87.90           | 35.65       | 1.61                  | 949.47                            | 6,803.25   | 4,786.38             | 4,726.68              | 59.70                   | 80.169            |                    |         |
| 12,900.00                                     | 8,835.00            | 6,906.35            | 4,987.81            | 89.81           | 35.64       | 1.60                  | 950.09                            | 6,803.25   | 4,725.96             | 4,666.03              | 59.94                   | 78.851            |                    |         |
| 13,000.00                                     | 8,835.00            | 6,905.72            | 4,987.80            | 91.72           | 35.63       | 1.59                  | 950.71                            | 6,803.26   | 4,666.91             | 4,606.72              | 60.19                   | 77.538            |                    |         |
| 13,100.00                                     | 8,835.00            | 6,905.10            | 4,987.79            | 93.64           | 35.62       | 1.58                  | 951.34                            | 6,803.26   | 4,609.27             | 4,548.81              | 60.46                   | 76.232            |                    |         |
| 13,200.00                                     | 8,835.00            | 6,904.47            | 4,987.77            | 95.56           | 35.62       | 1.57                  | 951.97                            | 6,803.27   | 4,553.10             | 4,492.34              | 60.76                   | 74.934            |                    |         |
| 13,300.00                                     | 8,835.00            | 6,903.83            | 4,987.76            | 97.49           | 35.61       | 1.56                  | 952.60                            | 6,803.28   | 4,498.44             | 4,437.36              | 61.08                   | 73.647            |                    |         |
| 13,400.00                                     | 8,835.00            | 6,903.20            | 4,987.75            | 99.42           | 35.60       | 1.55                  | 953.23                            | 6,803.28   | 4,445.37             | 4,383.95              | 61.42                   | 72.372            |                    |         |
| 13,500.00                                     | 8,835.00            | 6,902.56            | 4,987.74            | 101.36          | 35.59       | 1.54                  | 953.87                            | 6,803.29   | 4,393.93             | 4,332.14              | 61.79                   | 71.113            |                    |         |
| 13,600.00                                     | 8,835.00            | 6,901.92            | 4,987.73            | 103.30          | 35.58       | 1.53                  | 954.51                            | 6,803.29   | 4,344.18             | 4,282.01              | 62.17                   | 69.871            |                    |         |
| 13,700.00                                     | 8,835.00            | 6,901.27            | 4,987.72            | 105.25          | 35.58       | 1.52                  | 955.16                            | 6,803.30   | 4,296.19             | 4,233.61              | 62.58                   | 68.648            |                    |         |
| 13,800.00                                     | 8,835.00            | 6,900.62            | 4,987.70            | 107.20          | 35.57       | 1.51                  | 955.81                            | 6,803.30   | 4,250.00             | 4,186.99              | 63.01                   | 67.447            |                    |         |
| 13,900.00                                     | 8,835.00            | 6,899.97            | 4,987.69            | 109.15          | 35.56       | 1.50                  | 956.46                            | 6,803.31   | 4,205.69             | 4,142.23              | 63.46                   | 66.268            |                    |         |
| 14,000.00                                     | 8,835.00            | 6,899.32            | 4,987.68            | 111.10          | 35.55       | 1.49                  | 957.12                            | 6,803.32   | 4,163.31             | 4,099.37              | 63.94                   | 65.115            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw State 3H - Wellbore #1 - Wellbore #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|---------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 4452-MWD+HDGM                                               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                                                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                                                                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 14,100.00                                                                                   | 8,835.00            | 6,898.66            | 4,987.67            | 113.06          | 35.54       | 1.48                  | 957.77                            | 6,803.32   | 4,122.92             | 4,058.48              | 64.43                   | 63.988            |                    |         |
| 14,200.00                                                                                   | 8,835.00            | 6,898.00            | 4,987.65            | 115.03          | 35.53       | 1.47                  | 958.44                            | 6,803.33   | 4,084.57             | 4,019.62              | 64.95                   | 62.889            |                    |         |
| 14,300.00                                                                                   | 8,835.00            | 6,897.33            | 4,987.64            | 116.99          | 35.52       | 1.46                  | 959.10                            | 6,803.33   | 4,048.34             | 3,982.85              | 65.49                   | 61.820            |                    |         |
| 14,400.00                                                                                   | 8,835.00            | 6,896.66            | 4,987.63            | 118.96          | 35.52       | 1.45                  | 959.77                            | 6,803.34   | 4,014.26             | 3,948.22              | 66.04                   | 60.781            |                    |         |
| 14,500.00                                                                                   | 8,835.00            | 6,895.99            | 4,987.61            | 120.93          | 35.51       | 1.44                  | 960.44                            | 6,803.35   | 3,982.41             | 3,915.79              | 66.62                   | 59.775            |                    |         |
| 14,600.00                                                                                   | 8,835.00            | 6,895.31            | 4,987.60            | 122.90          | 35.50       | 1.43                  | 961.12                            | 6,803.35   | 3,952.83             | 3,885.61              | 67.22                   | 58.802            |                    |         |
| 14,700.00                                                                                   | 8,835.00            | 6,894.63            | 4,987.59            | 124.88          | 35.49       | 1.42                  | 961.80                            | 6,803.36   | 3,925.58             | 3,857.73              | 67.84                   | 57.862            |                    |         |
| 14,800.00                                                                                   | 8,835.00            | 6,893.95            | 4,987.57            | 126.86          | 35.48       | 1.41                  | 962.48                            | 6,803.36   | 3,900.70             | 3,832.21              | 68.48                   | 56.957            |                    |         |
| 14,900.00                                                                                   | 8,835.00            | 6,893.26            | 4,987.56            | 128.84          | 35.47       | 1.40                  | 963.17                            | 6,803.37   | 3,878.24             | 3,809.09              | 69.15                   | 56.087            |                    |         |
| 15,000.00                                                                                   | 8,835.00            | 6,892.57            | 4,987.54            | 130.82          | 35.46       | 1.39                  | 963.86                            | 6,803.38   | 3,858.24             | 3,788.41              | 69.83                   | 55.252            |                    |         |
| 15,100.00                                                                                   | 8,835.00            | 6,891.88            | 4,987.53            | 132.80          | 35.45       | 1.38                  | 964.55                            | 6,803.38   | 3,840.74             | 3,770.21              | 70.53                   | 54.454            |                    |         |
| 15,200.00                                                                                   | 8,835.00            | 6,891.18            | 4,987.51            | 134.79          | 35.44       | 1.37                  | 965.25                            | 6,803.39   | 3,825.78             | 3,754.52              | 71.26                   | 53.691            |                    |         |
| 15,300.00                                                                                   | 8,835.00            | 6,890.48            | 4,987.50            | 136.78          | 35.44       | 1.36                  | 965.95                            | 6,803.40   | 3,813.38             | 3,741.38              | 72.00                   | 52.965            |                    |         |
| 15,400.00                                                                                   | 8,835.00            | 6,889.77            | 4,987.48            | 138.76          | 35.43       | 1.35                  | 966.66                            | 6,803.40   | 3,803.56             | 3,730.80              | 72.76                   | 52.276            |                    |         |
| 15,500.00                                                                                   | 8,835.00            | 6,889.06            | 4,987.47            | 140.76          | 35.42       | 1.34                  | 967.37                            | 6,803.41   | 3,796.36             | 3,722.82              | 73.54                   | 51.623            |                    |         |
| 15,600.00                                                                                   | 8,835.00            | 6,888.35            | 4,987.45            | 142.75          | 35.41       | 1.33                  | 968.08                            | 6,803.42   | 3,791.79             | 3,717.45              | 74.34                   | 51.009            |                    |         |
| 15,700.00                                                                                   | 8,835.00            | 6,887.63            | 4,987.43            | 144.74          | 35.40       | 1.32                  | 968.80                            | 6,803.42   | 3,789.84             | 3,714.69              | 75.15                   | 50.432            |                    |         |
| 15,723.69                                                                                   | 8,835.00            | 6,887.46            | 4,987.43            | 145.21          | 35.40       | 1.31                  | 968.97                            | 6,803.43   | 3,789.77             | 3,714.43              | 75.34                   | 50.301 CC, ES     |                    |         |
| 15,800.00                                                                                   | 8,835.00            | 6,886.91            | 4,987.42            | 146.74          | 35.39       | 1.31                  | 969.52                            | 6,803.43   | 3,790.54             | 3,714.56              | 75.97                   | 49.894            |                    |         |
| 15,900.00                                                                                   | 8,835.00            | 6,886.19            | 4,987.40            | 148.73          | 35.38       | 1.30                  | 970.24                            | 6,803.44   | 3,793.87             | 3,717.06              | 76.81                   | 49.395            |                    |         |
| 16,000.00                                                                                   | 8,835.00            | 6,885.46            | 4,987.38            | 150.73          | 35.37       | 1.28                  | 970.97                            | 6,803.44   | 3,799.83             | 3,722.18              | 77.65                   | 48.936            |                    |         |
| 16,100.00                                                                                   | 8,835.00            | 6,884.73            | 4,987.37            | 152.73          | 35.36       | 1.27                  | 971.70                            | 6,803.45   | 3,808.40             | 3,729.90              | 78.50                   | 48.516            |                    |         |
| 16,200.00                                                                                   | 8,835.00            | 6,883.99            | 4,987.35            | 154.73          | 35.35       | 1.26                  | 972.44                            | 6,803.46   | 3,819.58             | 3,740.23              | 79.35                   | 48.137            |                    |         |
| 16,300.00                                                                                   | 8,835.00            | 6,883.25            | 4,987.33            | 156.73          | 35.34       | 1.25                  | 973.18                            | 6,803.47   | 3,833.33             | 3,753.13              | 80.20                   | 47.799            |                    |         |
| 16,400.00                                                                                   | 8,835.00            | 6,882.50            | 4,987.31            | 158.74          | 35.33       | 1.24                  | 973.92                            | 6,803.47   | 3,849.63             | 3,768.59              | 81.04                   | 47.503            |                    |         |
| 16,500.00                                                                                   | 8,835.00            | 6,881.76            | 4,987.29            | 160.74          | 35.32       | 1.23                  | 974.67                            | 6,803.48   | 3,868.45             | 3,786.58              | 81.88                   | 47.248            |                    |         |
| 16,600.00                                                                                   | 8,835.00            | 6,881.00            | 4,987.27            | 162.74          | 35.31       | 1.22                  | 975.42                            | 6,803.49   | 3,889.75             | 3,807.05              | 82.70                   | 47.034            |                    |         |
| 16,700.00                                                                                   | 8,835.00            | 6,880.24            | 4,987.26            | 164.75          | 35.30       | 1.21                  | 976.18                            | 6,803.50   | 3,913.49             | 3,829.98              | 83.51                   | 46.862            |                    |         |
| 16,800.00                                                                                   | 8,835.00            | 6,879.48            | 4,987.24            | 166.76          | 35.29       | 1.19                  | 976.94                            | 6,803.50   | 3,939.62             | 3,855.32              | 84.30                   | 46.731            |                    |         |
| 16,900.00                                                                                   | 8,835.00            | 6,878.72            | 4,987.22            | 168.77          | 35.28       | 1.18                  | 977.71                            | 6,803.51   | 3,968.11             | 3,883.03              | 85.08                   | 46.641            |                    |         |
| 17,000.00                                                                                   | 8,835.00            | 6,877.95            | 4,987.20            | 170.77          | 35.27       | 1.17                  | 978.48                            | 6,803.52   | 3,998.89             | 3,913.06              | 85.83                   | 46.592            |                    |         |
| 17,100.00                                                                                   | 8,835.00            | 6,877.17            | 4,987.18            | 172.78          | 35.26       | 1.16                  | 979.25                            | 6,803.53   | 4,031.91             | 3,945.36              | 86.56                   | 46.582            |                    |         |
| 17,200.00                                                                                   | 8,835.00            | 6,876.39            | 4,987.16            | 174.79          | 35.25       | 1.15                  | 980.03                            | 6,803.54   | 4,067.13             | 3,979.88              | 87.26                   | 46.611            |                    |         |
| 17,300.00                                                                                   | 8,835.00            | 6,875.61            | 4,987.14            | 176.81          | 35.24       | 1.14                  | 980.81                            | 6,803.54   | 4,104.48             | 4,016.55              | 87.93                   | 46.678            |                    |         |
| 17,400.00                                                                                   | 8,835.00            | 6,874.82            | 4,987.11            | 178.82          | 35.23       | 1.12                  | 981.60                            | 6,803.55   | 4,143.91             | 4,055.33              | 88.58                   | 46.782            |                    |         |
| 17,500.00                                                                                   | 8,835.00            | 6,874.03            | 4,987.09            | 180.83          | 35.22       | 1.11                  | 982.39                            | 6,803.56   | 4,185.36             | 4,096.16              | 89.20                   | 46.922            |                    |         |
| 17,600.00                                                                                   | 8,835.00            | 6,873.24            | 4,987.07            | 182.84          | 35.21       | 1.10                  | 983.19                            | 6,803.57   | 4,228.76             | 4,138.98              | 89.79                   | 47.097            |                    |         |
| 17,700.00                                                                                   | 8,835.00            | 6,872.43            | 4,987.05            | 184.86          | 35.20       | 1.09                  | 983.99                            | 6,803.58   | 4,274.07             | 4,183.72              | 90.35                   | 47.306            |                    |         |
| 17,800.00                                                                                   | 8,835.00            | 6,871.63            | 4,987.03            | 186.87          | 35.19       | 1.08                  | 984.79                            | 6,803.59   | 4,321.21             | 4,230.33              | 90.88                   | 47.548            |                    |         |
| 17,900.00                                                                                   | 8,835.00            | 6,870.82            | 4,987.00            | 188.89          | 35.18       | 1.06                  | 985.60                            | 6,803.59   | 4,370.14             | 4,278.75              | 91.38                   | 47.822            |                    |         |
| 18,000.00                                                                                   | 8,835.00            | 6,870.00            | 4,986.98            | 190.91          | 35.17       | 1.05                  | 986.42                            | 6,803.60   | 4,420.78             | 4,328.92              | 91.86                   | 48.126            |                    |         |
| 18,100.00                                                                                   | 8,835.00            | 6,869.18            | 4,986.96            | 192.92          | 35.16       | 1.04                  | 987.24                            | 6,803.61   | 4,473.09             | 4,380.78              | 92.31                   | 48.459            |                    |         |
| 18,200.00                                                                                   | 8,835.00            | 6,868.36            | 4,986.93            | 194.94          | 35.15       | 1.03                  | 988.06                            | 6,803.62   | 4,527.00             | 4,434.27              | 92.73                   | 48.821            |                    |         |
| 18,300.00                                                                                   | 8,835.00            | 6,867.53            | 4,986.91            | 196.96          | 35.14       | 1.01                  | 988.89                            | 6,803.63   | 4,582.46             | 4,489.33              | 93.12                   | 49.210            |                    |         |
| 18,400.00                                                                                   | 8,835.00            | 6,866.70            | 4,986.89            | 198.98          | 35.13       | 1.00                  | 989.72                            | 6,803.64   | 4,639.41             | 4,545.92              | 93.49                   | 49.625            |                    |         |
| 18,500.00                                                                                   | 8,835.00            | 18,500.00           | 4,986.25            | 201.00          | 185.52      | 0.70                  | 1,009.52                          | 6,803.87   | 4,697.87             | 4,492.52              | 205.35                  | 22.877 SF         |                    |         |
| 18,600.00                                                                                   | 8,835.00            | 18,600.00           | 4,986.18            | 203.02          | 186.82      | 0.67                  | 1,011.68                          | 6,803.90   | 4,757.64             | 4,549.85              | 207.78                  | 22.897            |                    |         |
| 18,700.00                                                                                   | 8,835.00            | 18,700.00           | 4,986.12            | 205.04          | 188.11      | 0.64                  | 1,013.85                          | 6,803.93   | 4,818.74             | 4,608.55              | 210.18                  | 22.926            |                    |         |
| 18,800.00                                                                                   | 8,835.00            | 18,800.00           | 4,986.06            | 207.06          | 189.41      | 0.60                  | 1,016.01                          | 6,803.97   | 4,881.12             | 4,668.57              | 212.55                  | 22.965            |                    |         |
| 18,900.00                                                                                   | 8,835.00            | 18,900.00           | 4,986.00            | 209.08          | 190.70      | 0.57                  | 1,018.18                          | 6,804.00   | 4,944.74             | 4,729.85              | 214.89                  | 23.011            |                    |         |
| 19,000.00                                                                                   | 8,835.00            | 19,000.00           | 4,985.94            | 211.10          | 192.00      | 0.54                  | 1,020.34                          | 6,804.04   | 5,009.54             | 4,792.35              | 217.19                  | 23.065            |                    |         |
| 19,100.00                                                                                   | 8,835.00            | 19,100.00           | 4,985.88            | 213.12          | 193.29      | 0.51                  | 1,022.50                          | 6,804.07   | 5,075.49             | 4,856.03              | 219.46                  | 23.127            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw State 3H - Wellbore #1 - Wellbore #1 |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Site Error:</b> | 5.00 ft |
|---------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|-----------------------------------------|---------------|-------------------------|--------------------------|----------------------------|---------------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 4452-MWD+HDGM                                               |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                   |                        | Offset                 |                        | Semi Major Axis   |                |                          | Distance                                |               |                         |                          |                            |                           | Warning |
| Measured Depth<br>(ft)                                                                      | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between Centres<br>(ft) | Between Ellipses<br>(ft) | Minimum Separation<br>(ft) | Separation Factor         |         |
| 19,200.00                                                                                   | 8,835.00               | 19,200.00              | 4,985.82               | 215.15            | 194.59         | 0.47                     | 1,024.67                                | 6,804.10      | 5,142.53                | 4,920.83                 | 221.70                     | 23.196                    |         |
| 19,308.27                                                                                   | 8,835.00               | 19,308.27              | 4,985.75               | 217.34            | 195.99         | 0.44                     | 1,027.01                                | 6,804.14      | 5,216.31                | 4,992.22                 | 224.09                     | 23.278                    |         |



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 2922-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                                          | 0.00                | 0.00                | 0.00                | 0.50            | 5.02        | 67.10                 | 3,259.92                          | 7,715.55   | 8,376.16             |                       |                         |                   |                    |         |
| 100.00                                        | 100.00              | 38.30               | 38.30               | 0.52            | 5.03        | 67.10                 | 3,259.92                          | 7,715.55   | 8,375.97             | 8,370.43              | 5.54                    | 1,511.104         |                    |         |
| 200.00                                        | 200.00              | 138.37              | 138.37              | 0.70            | 5.03        | 67.10                 | 3,259.99                          | 7,715.61   | 8,376.05             | 8,370.32              | 5.73                    | 1,460.755         |                    |         |
| 300.00                                        | 300.00              | 262.01              | 262.01              | 0.99            | 5.07        | 67.09                 | 3,260.41                          | 7,715.32   | 8,375.97             | 8,369.91              | 6.06                    | 1,382.075         |                    |         |
| 400.00                                        | 400.00              | 400.00              | 466.75              | 1.31            | 5.16        | 67.09                 | 3,259.79                          | 7,713.68   | 8,375.12             | 8,368.65              | 6.47                    | 1,294.403         |                    |         |
| 500.00                                        | 500.00              | 624.90              | 624.85              | 1.65            | 5.40        | 67.10                 | 3,257.38                          | 7,711.17   | 8,372.94             | 8,365.89              | 7.04                    | 1,189.089         |                    |         |
| 600.00                                        | 600.00              | 685.91              | 685.85              | 1.99            | 5.48        | 67.10                 | 3,256.55                          | 7,710.23   | 8,370.99             | 8,363.52              | 7.47                    | 1,120.953         |                    |         |
| 700.00                                        | 700.00              | 763.71              | 763.63              | 2.34            | 5.60        | 67.10                 | 3,255.90                          | 7,709.20   | 8,369.43             | 8,361.50              | 7.93                    | 1,055.332         |                    |         |
| 800.00                                        | 800.00              | 874.72              | 874.63              | 2.69            | 5.78        | 67.10                 | 3,255.32                          | 7,707.69   | 8,367.98             | 8,359.52              | 8.46                    | 988.796           |                    |         |
| 900.00                                        | 900.00              | 1,003.73            | 1,003.62            | 3.04            | 6.02        | 67.10                 | 3,254.96                          | 7,705.38   | 8,366.22             | 8,357.17              | 9.05                    | 924.376           |                    |         |
| 1,000.00                                      | 1,000.00            | 1,070.14            | 1,070.02            | 3.40            | 6.15        | 67.10                 | 3,254.91                          | 7,704.17   | 8,364.51             | 8,354.97              | 9.54                    | 877.170           |                    |         |
| 1,100.00                                      | 1,100.00            | 1,360.61            | 1,360.37            | 3.75            | 6.79        | 67.10                 | 3,251.74                          | 7,697.48   | 8,362.19             | 8,351.67              | 10.52                   | 794.662           |                    |         |
| 1,200.00                                      | 1,200.00            | 1,439.83            | 1,439.53            | 4.11            | 6.99        | 67.11                 | 3,249.43                          | 7,695.28   | 8,358.50             | 8,347.43              | 11.07                   | 755.142           |                    |         |
| 1,300.00                                      | 1,300.00            | 1,515.20            | 1,514.85            | 4.46            | 7.18        | 67.12                 | 3,247.19                          | 7,693.43   | 8,355.09             | 8,343.48              | 11.61                   | 719.541           |                    |         |
| 1,400.00                                      | 1,400.00            | 1,589.22            | 1,588.82            | 4.82            | 7.37        | 67.13                 | 3,245.03                          | 7,691.85   | 8,351.98             | 8,339.82              | 12.16                   | 687.040           |                    |         |
| 1,500.00                                      | 1,500.00            | 1,716.67            | 1,716.19            | 5.18            | 7.71        | 67.14                 | 3,241.38                          | 7,689.04   | 8,348.83             | 8,335.99              | 12.85                   | 649.941           |                    |         |
| 1,600.00                                      | 1,600.00            | 1,788.89            | 1,788.36            | 5.53            | 7.91        | 67.15                 | 3,239.38                          | 7,687.45   | 8,345.72             | 8,332.32              | 13.40                   | 622.950           |                    |         |
| 1,700.00                                      | 1,700.00            | 1,920.52            | 1,919.91            | 5.89            | 8.28        | 67.17                 | 3,235.64                          | 7,684.60   | 8,342.63             | 8,328.52              | 14.12                   | 591.037           |                    |         |
| 1,800.00                                      | 1,800.00            | 2,092.57            | 2,091.81            | 6.25            | 8.79        | 67.19                 | 3,230.31                          | 7,679.94   | 8,338.98             | 8,324.02              | 14.96                   | 557.516           |                    |         |
| 1,900.00                                      | 1,900.00            | 2,177.30            | 2,176.46            | 6.61            | 9.04        | 67.20                 | 3,227.83                          | 7,677.18   | 8,334.85             | 8,319.29              | 15.56                   | 535.638           |                    |         |
| 2,000.00                                      | 2,000.00            | 2,245.49            | 2,244.59            | 6.96            | 9.25        | 67.20                 | 3,225.91                          | 7,675.14   | 8,331.01             | 8,314.89              | 16.12                   | 516.838           |                    |         |
| 2,100.00                                      | 2,099.99            | 2,316.89            | 2,315.94            | 7.32            | 9.46        | 80.03                 | 3,223.83                          | 7,673.38   | 8,327.44             | 8,310.75              | 16.69                   | 498.984           |                    |         |
| 2,200.00                                      | 2,199.96            | 2,422.33            | 2,421.30            | 7.68            | 9.79        | 80.10                 | 3,220.65                          | 7,670.85   | 8,323.61             | 8,306.24              | 17.36                   | 479.441           |                    |         |
| 2,300.00                                      | 2,299.86            | 2,500.00            | 2,498.92            | 8.04            | 10.03       | 80.17                 | 3,218.40                          | 7,669.12   | 8,319.66             | 8,301.71              | 17.95                   | 463.405           |                    |         |
| 2,400.00                                      | 2,399.68            | 2,596.25            | 2,595.11            | 8.39            | 10.33       | 80.26                 | 3,215.72                          | 7,667.08   | 8,315.59             | 8,296.99              | 18.60                   | 446.992           |                    |         |
| 2,500.00                                      | 2,499.37            | 2,691.74            | 2,690.54            | 8.75            | 10.63       | 80.37                 | 3,213.14                          | 7,665.03   | 8,311.24             | 8,291.98              | 19.25                   | 431.670           |                    |         |
| 2,600.00                                      | 2,598.90            | 2,769.79            | 2,768.55            | 9.11            | 10.87       | 80.47                 | 3,211.15                          | 7,663.42   | 8,306.75             | 8,286.90              | 19.85                   | 418.423           |                    |         |
| 2,700.00                                      | 2,698.26            | 2,836.81            | 2,835.55            | 9.46            | 10.99       | 80.57                 | 3,209.74                          | 7,662.15   | 8,302.31             | 8,281.99              | 20.32                   | 408.506           |                    |         |
| 2,800.00                                      | 2,797.40            | 2,903.16            | 2,901.87            | 9.82            | 11.10       | 80.68                 | 3,208.92                          | 7,660.95   | 8,298.00             | 8,277.21              | 20.79                   | 399.207           |                    |         |
| 2,900.00                                      | 2,896.30            | 2,989.64            | 2,988.35            | 10.18           | 11.14       | 80.81                 | 3,208.49                          | 7,659.40   | 8,293.73             | 8,272.54              | 21.18                   | 391.521           |                    |         |
| 3,000.00                                      | 2,994.93            | 3,339.89            | 3,337.93            | 10.54           | 11.27       | 81.16                 | 3,217.22                          | 7,642.24   | 8,286.78             | 8,265.12              | 21.66                   | 382.635           |                    |         |
| 3,100.00                                      | 3,093.26            | 3,440.95            | 3,438.62            | 10.90           | 11.33       | 81.31                 | 3,222.00                          | 7,635.01   | 8,279.03             | 8,256.95              | 22.08                   | 374.946           |                    |         |
| 3,195.07                                      | 3,186.42            | 3,534.95            | 3,532.27            | 11.24           | 11.40       | 81.47                 | 3,226.42                          | 7,628.27   | 8,271.42             | 8,248.92              | 22.49                   | 367.709           |                    |         |
| 3,200.00                                      | 3,191.25            | 3,539.73            | 3,537.04            | 11.26           | 11.40       | 81.48                 | 3,226.65                          | 7,627.93   | 8,271.02             | 8,248.50              | 22.52                   | 367.337           |                    |         |
| 3,300.00                                      | 3,289.08            | 3,636.61            | 3,633.57            | 11.62           | 11.48       | 81.57                 | 3,231.23                          | 7,621.00   | 8,262.92             | 8,239.96              | 22.96                   | 359.831           |                    |         |
| 3,400.00                                      | 3,386.91            | 3,734.62            | 3,731.21            | 11.98           | 11.58       | 81.66                 | 3,235.91                          | 7,613.98   | 8,254.87             | 8,231.45              | 23.42                   | 352.410           |                    |         |
| 3,500.00                                      | 3,484.74            | 3,833.44            | 3,829.65            | 12.35           | 11.68       | 81.75                 | 3,240.76                          | 7,606.86   | 8,246.84             | 8,222.95              | 23.90                   | 345.084           |                    |         |
| 3,600.00                                      | 3,582.58            | 3,928.67            | 3,924.52            | 12.72           | 11.79       | 81.84                 | 3,245.42                          | 7,600.01   | 8,238.85             | 8,214.47              | 24.38                   | 337.934           |                    |         |
| 3,700.00                                      | 3,680.41            | 3,990.40            | 3,986.02            | 13.09           | 11.86       | 81.90                 | 3,248.43                          | 7,595.68   | 8,231.07             | 8,206.23              | 24.83                   | 331.471           |                    |         |
| 3,800.00                                      | 3,778.24            | 4,056.00            | 4,051.41            | 13.46           | 11.95       | 81.96                 | 3,251.84                          | 7,591.56   | 8,223.97             | 8,198.68              | 25.29                   | 325.150           |                    |         |
| 3,900.00                                      | 3,876.08            | 4,249.14            | 4,244.02            | 13.83           | 12.22       | 82.16                 | 3,258.65                          | 7,579.19   | 8,216.20             | 8,190.27              | 25.94                   | 316.799           |                    |         |
| 4,000.00                                      | 3,973.91            | 4,278.03            | 4,272.84            | 14.21           | 12.27       | 82.20                 | 3,259.51                          | 7,577.39   | 8,208.47             | 8,182.11              | 26.36                   | 311.378           |                    |         |
| 4,100.00                                      | 4,071.74            | 4,309.23            | 4,303.98            | 14.58           | 12.31       | 82.23                 | 3,260.54                          | 7,575.67   | 8,201.58             | 8,174.79              | 26.79                   | 306.125           |                    |         |
| 4,200.00                                      | 4,169.57            | 4,341.27            | 4,335.97            | 14.96           | 12.36       | 82.26                 | 3,261.72                          | 7,574.15   | 8,195.53             | 8,168.31              | 27.22                   | 301.056           |                    |         |
| 4,300.00                                      | 4,267.41            | 4,424.01            | 4,418.56            | 15.33           | 12.50       | 82.35                 | 3,264.95                          | 7,570.58   | 8,190.00             | 8,162.27              | 27.74                   | 295.277           |                    |         |
| 4,400.00                                      | 4,365.24            | 4,521.29            | 4,515.68            | 15.71           | 12.66       | 82.46                 | 3,268.77                          | 7,566.48   | 8,184.62             | 8,156.34              | 28.28                   | 289.400           |                    |         |
| 4,500.00                                      | 4,463.07            | 4,614.27            | 4,608.51            | 16.09           | 12.82       | 82.56                 | 3,272.37                          | 7,562.62   | 8,179.29             | 8,150.46              | 28.83                   | 283.738           |                    |         |
| 4,600.00                                      | 4,560.90            | 4,713.41            | 4,707.49            | 16.47           | 13.01       | 82.67                 | 3,276.16                          | 7,558.56   | 8,174.03             | 8,144.64              | 29.39                   | 278.114           |                    |         |
| 4,700.00                                      | 4,658.74            | 4,802.74            | 4,796.69            | 16.85           | 13.18       | 82.77                 | 3,279.48                          | 7,554.98   | 8,168.84             | 8,138.90              | 29.94                   | 272.802           |                    |         |
| 4,800.00                                      | 4,756.57            | 4,800.00            | 7,752.71            | 17.23           | 27.68       | 105.91                | 609.78                            | 7,460.74   | 8,156.80             | 8,114.48              | 42.32                   | 192.750           |                    |         |
| 4,900.00                                      | 4,854.40            | 10,189.43           | 7,751.94            | 17.61           | 42.70       | 105.15                | 713.74                            | 7,458.20   | 8,124.42             | 8,066.77              | 57.65                   | 140.938           |                    |         |
| 5,000.00                                      | 4,952.23            | 10,159.12           | 7,751.39            | 17.99           | 42.31       | 104.93                | 744.03                            | 7,457.39   | 8,093.00             | 8,035.20              | 57.80                   | 140.018           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 2922-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                                      | 5,050.07            | 10,156.00           | 7,751.33            | 18.37           | 42.27       | 104.90                | 747.15                            | 7,457.31   | 8,062.65             | 8,004.36              | 58.30                   | 138.307           |                    |         |
| 5,200.00                                      | 5,147.90            | 10,156.00           | 7,751.33            | 18.75           | 42.27       | 104.90                | 747.15                            | 7,457.31   | 8,033.44             | 7,974.61              | 58.83                   | 136.556           |                    |         |
| 5,300.00                                      | 5,245.73            | 10,129.78           | 7,750.90            | 19.14           | 41.94       | 104.71                | 773.36                            | 7,456.62   | 8,005.28             | 7,946.25              | 59.03                   | 135.616           |                    |         |
| 5,400.00                                      | 5,343.56            | 10,120.36           | 7,750.78            | 19.52           | 41.82       | 104.64                | 782.77                            | 7,456.39   | 7,978.29             | 7,918.85              | 59.44                   | 134.229           |                    |         |
| 5,500.00                                      | 5,441.40            | 10,110.76           | 7,750.68            | 19.90           | 41.69       | 104.57                | 792.37                            | 7,456.15   | 7,952.44             | 7,892.60              | 59.84                   | 132.893           |                    |         |
| 5,600.00                                      | 5,539.23            | 10,100.95           | 7,750.59            | 20.29           | 41.57       | 104.50                | 802.18                            | 7,455.92   | 7,927.75             | 7,867.51              | 60.24                   | 131.607           |                    |         |
| 5,700.00                                      | 5,637.06            | 10,090.94           | 7,750.53            | 20.67           | 41.44       | 104.43                | 812.18                            | 7,455.69   | 7,904.22             | 7,843.59              | 60.63                   | 130.371           |                    |         |
| 5,800.00                                      | 5,734.90            | 10,080.72           | 7,750.48            | 21.05           | 41.31       | 104.36                | 822.41                            | 7,455.46   | 7,881.86             | 7,820.85              | 61.01                   | 129.185           |                    |         |
| 5,900.00                                      | 5,832.73            | 10,062.00           | 7,750.46            | 21.44           | 41.07       | 104.22                | 841.12                            | 7,455.05   | 7,860.70             | 7,799.42              | 61.28                   | 128.269           |                    |         |
| 6,000.00                                      | 5,930.56            | 10,058.31           | 7,750.46            | 21.83           | 41.03       | 104.19                | 844.81                            | 7,454.98   | 7,840.71             | 7,778.97              | 61.74                   | 126.993           |                    |         |
| 6,100.00                                      | 6,028.39            | 10,042.16           | 7,750.42            | 22.21           | 40.82       | 104.07                | 860.95                            | 7,454.66   | 7,821.91             | 7,759.88              | 62.04                   | 126.085           |                    |         |
| 6,200.00                                      | 6,126.23            | 10,026.70           | 7,750.31            | 22.60           | 40.63       | 103.96                | 876.41                            | 7,454.38   | 7,804.32             | 7,741.98              | 62.34                   | 125.198           |                    |         |
| 6,300.00                                      | 6,224.06            | 10,011.88           | 7,750.15            | 22.98           | 40.44       | 103.85                | 891.23                            | 7,454.13   | 7,787.93             | 7,725.29              | 62.64                   | 124.333           |                    |         |
| 6,400.00                                      | 6,321.89            | 9,997.67            | 7,749.94            | 23.37           | 40.26       | 103.75                | 905.44                            | 7,453.91   | 7,772.75             | 7,709.81              | 62.94                   | 123.493           |                    |         |
| 6,500.00                                      | 6,419.72            | 9,984.03            | 7,749.68            | 23.76           | 40.09       | 103.65                | 919.08                            | 7,453.72   | 7,758.80             | 7,695.56              | 63.25                   | 122.678           |                    |         |
| 6,600.00                                      | 6,517.56            | 9,979.70            | 7,749.59            | 24.14           | 40.04       | 103.62                | 923.40                            | 7,453.65   | 7,746.09             | 7,682.42              | 63.66                   | 121.677           |                    |         |
| 6,700.00                                      | 6,615.39            | 9,939.80            | 7,748.51            | 24.53           | 39.54       | 103.32                | 963.29                            | 7,453.17   | 7,734.60             | 7,670.98              | 63.62                   | 121.572           |                    |         |
| 6,800.00                                      | 6,713.22            | 9,903.91            | 7,747.20            | 24.92           | 39.09       | 103.06                | 999.15                            | 7,452.70   | 7,724.31             | 7,660.69              | 63.63                   | 121.402           |                    |         |
| 6,900.00                                      | 6,811.05            | 9,871.90            | 7,745.77            | 25.30           | 38.69       | 102.83                | 1,031.12                          | 7,452.24   | 7,715.23             | 7,651.56              | 63.67                   | 121.171           |                    |         |
| 7,000.00                                      | 6,908.89            | 9,849.14            | 7,744.73            | 25.69           | 38.41       | 102.66                | 1,053.86                          | 7,451.89   | 7,707.39             | 7,643.56              | 63.83                   | 120.747           |                    |         |
| 7,100.00                                      | 7,006.72            | 9,825.04            | 7,743.73            | 26.08           | 38.12       | 102.48                | 1,077.93                          | 7,451.47   | 7,700.78             | 7,636.82              | 63.97                   | 120.390           |                    |         |
| 7,200.00                                      | 7,104.55            | 9,799.48            | 7,742.80            | 26.47           | 37.80       | 102.29                | 1,103.47                          | 7,450.99   | 7,695.42             | 7,631.35              | 64.07                   | 120.103           |                    |         |
| 7,216.87                                      | 7,121.05            | 9,795.93            | 7,742.74            | 26.53           | 37.75       | 102.27                | 1,107.02                          | 7,450.92   | 7,694.64             | 7,630.54              | 64.10                   | 120.045           |                    |         |
| 7,300.00                                      | 7,202.57            | 9,773.26            | 7,741.98            | 26.85           | 37.48       | 102.05                | 1,129.67                          | 7,450.46   | 7,691.10             | 7,626.94              | 64.16                   | 119.865           |                    |         |
| 7,400.00                                      | 7,301.06            | 9,745.23            | 7,741.43            | 27.23           | 37.14       | 101.79                | 1,157.69                          | 7,449.82   | 7,687.50             | 7,623.27              | 64.22                   | 119.701           |                    |         |
| 7,500.00                                      | 7,399.97            | 9,544.41            | 7,744.75            | 27.61           | 34.72       | 100.27                | 1,358.30                          | 7,441.94   | 7,684.18             | 7,622.05              | 62.13                   | 123.679           |                    |         |
| 7,600.00                                      | 7,499.23            | 9,530.78            | 7,745.43            | 27.98           | 34.56       | 100.13                | 1,371.89                          | 7,441.24   | 7,681.71             | 7,619.37              | 62.34                   | 123.217           |                    |         |
| 7,700.00                                      | 7,598.77            | 9,517.79            | 7,746.20            | 28.34           | 34.41       | 100.01                | 1,384.85                          | 7,440.57   | 7,680.05             | 7,617.50              | 62.55                   | 122.785           |                    |         |
| 7,800.00                                      | 7,698.53            | 9,505.55            | 7,747.03            | 28.70           | 34.26       | 99.91                 | 1,397.04                          | 7,439.94   | 7,679.21             | 7,616.46              | 62.75                   | 122.380           |                    |         |
| 7,850.69                                      | 7,749.16            | 9,499.89            | 7,747.44            | 28.87           | 34.19       | 99.86                 | 1,402.68                          | 7,439.65   | 7,679.10             | 7,616.25              | 62.85                   | 122.182           |                    |         |
| 7,900.00                                      | 7,798.44            | 9,494.22            | 7,747.89            | 29.05           | 34.13       | 99.82                 | 1,408.32                          | 7,439.36   | 7,679.20             | 7,616.26              | 62.95                   | 121.997           |                    |         |
| 8,000.00                                      | 7,898.42            | 9,484.78            | 7,748.63            | 29.39           | 34.02       | 99.76                 | 1,417.72                          | 7,438.87   | 7,680.04             | 7,616.88              | 63.15                   | 121.611           |                    |         |
| 8,013.58                                      | 7,912.00            | 9,483.71            | 7,748.71            | 29.43           | 34.01       | 96.98                 | 1,418.79                          | 7,438.82   | 7,680.22             | 7,617.03              | 63.18                   | 121.557           |                    |         |
| 8,100.00                                      | 7,998.42            | 9,477.10            | 7,749.22            | 29.73           | 33.93       | 86.93                 | 1,425.36                          | 7,438.48   | 7,681.89             | 7,618.52              | 63.37                   | 121.225           |                    |         |
| 8,200.00                                      | 8,098.42            | 9,469.60            | 7,749.80            | 30.07           | 33.84       | 86.87                 | 1,432.84                          | 7,438.09   | 7,685.02             | 7,621.44              | 63.58                   | 120.872           |                    |         |
| 8,300.00                                      | 8,198.42            | 9,462.23            | 7,750.36            | 30.41           | 33.76       | 86.82                 | 1,440.17                          | 7,437.71   | 7,689.45             | 7,625.67              | 63.79                   | 120.552           |                    |         |
| 8,363.62                                      | 8,262.04            | 9,457.62            | 7,750.71            | 30.62           | 33.70       | 86.78                 | 1,444.77                          | 7,437.47   | 7,692.94             | 7,629.03              | 63.91                   | 120.365           |                    |         |
| 8,400.00                                      | 8,298.40            | 9,455.06            | 7,750.90            | 30.75           | 33.67       | -2.89                 | 1,447.32                          | 7,437.34   | 7,694.02             | 7,630.04              | 63.98                   | 120.252           |                    |         |
| 8,450.00                                      | 8,348.10            | 9,451.74            | 7,751.15            | 30.91           | 33.63       | -2.92                 | 1,450.62                          | 7,437.17   | 7,692.02             | 7,627.95              | 64.07                   | 120.051           |                    |         |
| 8,500.00                                      | 8,397.14            | 9,448.70            | 7,751.38            | 31.07           | 33.60       | -2.98                 | 1,453.65                          | 7,437.01   | 7,686.00             | 7,621.83              | 64.16                   | 119.792           |                    |         |
| 8,550.00                                      | 8,445.15            | 9,445.93            | 7,751.58            | 31.23           | 33.57       | -3.05                 | 1,456.41                          | 7,436.87   | 7,675.99             | 7,611.74              | 64.25                   | 119.478           |                    |         |
| 8,600.00                                      | 8,491.77            | 9,443.46            | 7,751.77            | 31.38           | 33.54       | -3.15                 | 1,458.87                          | 7,436.74   | 7,662.06             | 7,597.74              | 64.33                   | 119.113           |                    |         |
| 8,650.00                                      | 8,536.65            | 9,441.30            | 7,751.93            | 31.52           | 33.51       | -3.27                 | 1,461.02                          | 7,436.63   | 7,644.30             | 7,579.90              | 64.40                   | 118.699           |                    |         |
| 8,700.00                                      | 8,579.43            | 9,439.46            | 7,752.06            | 31.66           | 33.49       | -3.43                 | 1,462.85                          | 7,436.54   | 7,622.80             | 7,558.34              | 64.47                   | 118.240           |                    |         |
| 8,750.00                                      | 8,619.80            | 9,437.96            | 7,752.17            | 31.80           | 33.47       | -3.62                 | 1,464.35                          | 7,436.46   | 7,597.72             | 7,533.19              | 64.53                   | 117.739           |                    |         |
| 8,800.00                                      | 8,657.44            | 9,436.79            | 7,752.26            | 31.93           | 33.46       | -3.86                 | 1,465.51                          | 7,436.40   | 7,569.19             | 7,504.61              | 64.58                   | 117.198           |                    |         |
| 8,850.00                                      | 8,692.08            | 9,435.97            | 7,752.32            | 32.06           | 33.45       | -4.15                 | 1,466.33                          | 7,436.36   | 7,537.41             | 7,472.77              | 64.63                   | 116.620           |                    |         |
| 8,900.00                                      | 8,723.44            | 9,435.49            | 7,752.35            | 32.19           | 33.44       | -4.53                 | 1,466.81                          | 7,436.33   | 7,502.56             | 7,437.89              | 64.67                   | 116.008           |                    |         |
| 8,950.00                                      | 8,751.29            | 9,435.36            | 7,752.36            | 32.34           | 33.44       | -5.00                 | 1,466.94                          | 7,436.33   | 7,464.89             | 7,400.18              | 64.71                   | 115.365           |                    |         |
| 9,000.00                                      | 8,775.42            | 9,435.57            | 7,752.35            | 32.50           | 33.45       | -5.63                 | 1,466.73                          | 7,436.34   | 7,424.63             | 7,359.90              | 64.74                   | 114.692           |                    |         |
| 9,050.00                                      | 8,795.64            | 9,436.12            | 7,752.31            | 32.67           | 33.45       | -6.48                 | 1,466.18                          | 7,436.36   | 7,382.05             | 7,317.29              | 64.76                   | 113.993           |                    |         |
| 9,100.00                                      | 8,811.80            | 9,437.00            | 7,752.24            | 32.87           | 33.46       | -7.69                 | 1,465.30                          | 7,436.41   | 7,337.44             | 7,272.66              | 64.78                   | 113.270           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 2922-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,150.00                                      | 8,823.77            | 9,438.21            | 7,752.15            | 33.10           | 33.48       | -9.51                 | 1,464.09                          | 7,436.47   | 7,291.10             | 7,226.30              | 64.79                   | 112.526           |                    |         |
| 9,200.00                                      | 8,831.47            | 9,439.74            | 7,752.04            | 33.34           | 33.49       | -12.56                | 1,462.57                          | 7,436.55   | 7,243.35             | 7,178.54              | 64.81                   | 111.763           |                    |         |
| 9,250.00                                      | 8,834.84            | 9,441.58            | 7,751.90            | 33.60           | 33.52       | -18.57                | 1,460.74                          | 7,436.65   | 7,194.54             | 7,129.72              | 64.83                   | 110.982           |                    |         |
| 9,263.62                                      | 8,835.00            | 9,442.13            | 7,751.86            | 33.67           | 33.52       | -21.34                | 1,460.19                          | 7,436.67   | 7,181.11             | 7,116.28              | 64.83                   | 110.765           |                    |         |
| 9,300.00                                      | 8,835.00            | 9,443.64            | 7,751.75            | 33.88           | 33.54       | -21.26                | 1,458.69                          | 7,436.75   | 7,145.16             | 7,080.32              | 64.84                   | 110.191           |                    |         |
| 9,400.00                                      | 8,835.00            | 9,447.78            | 7,751.45            | 34.53           | 33.59       | -21.05                | 1,454.57                          | 7,436.97   | 7,046.37             | 6,981.49              | 64.87                   | 108.616           |                    |         |
| 9,500.00                                      | 8,835.00            | 9,451.91            | 7,751.14            | 35.30           | 33.64       | -20.85                | 1,450.45                          | 7,437.18   | 6,947.61             | 6,882.70              | 64.91                   | 107.042           |                    |         |
| 9,600.00                                      | 8,835.00            | 9,456.05            | 7,750.83            | 36.17           | 33.68       | -20.64                | 1,446.33                          | 7,437.39   | 6,848.88             | 6,783.94              | 64.94                   | 105.467           |                    |         |
| 9,700.00                                      | 8,835.00            | 9,460.19            | 7,750.52            | 37.13           | 33.73       | -20.43                | 1,442.21                          | 7,437.60   | 6,750.19             | 6,685.22              | 64.97                   | 103.893           |                    |         |
| 9,800.00                                      | 8,835.00            | 9,464.32            | 7,750.20            | 38.18           | 33.78       | -20.23                | 1,438.09                          | 7,437.82   | 6,651.53             | 6,586.53              | 65.01                   | 102.320           |                    |         |
| 9,900.00                                      | 8,835.00            | 9,468.46            | 7,749.89            | 39.31           | 33.83       | -20.02                | 1,433.97                          | 7,438.03   | 6,552.92             | 6,487.87              | 65.04                   | 100.747           |                    |         |
| 10,000.00                                     | 8,835.00            | 9,472.60            | 7,749.57            | 40.51           | 33.88       | -19.81                | 1,429.85                          | 7,438.24   | 6,454.34             | 6,389.26              | 65.08                   | 99.175            |                    |         |
| 10,100.00                                     | 8,835.00            | 9,476.73            | 7,749.25            | 41.78           | 33.92       | -19.60                | 1,425.73                          | 7,438.46   | 6,355.80             | 6,290.68              | 65.12                   | 97.603            |                    |         |
| 10,200.00                                     | 8,835.00            | 9,480.87            | 7,748.93            | 43.10           | 33.97       | -19.39                | 1,421.62                          | 7,438.67   | 6,257.31             | 6,192.15              | 65.16                   | 96.032            |                    |         |
| 10,300.00                                     | 8,835.00            | 9,485.00            | 7,748.61            | 44.49           | 34.02       | -19.18                | 1,417.50                          | 7,438.88   | 6,158.86             | 6,093.66              | 65.20                   | 94.462            |                    |         |
| 10,400.00                                     | 8,835.00            | 9,489.14            | 7,748.29            | 45.92           | 34.07       | -18.97                | 1,413.38                          | 7,439.10   | 6,060.46             | 5,995.22              | 65.24                   | 92.894            |                    |         |
| 10,500.00                                     | 8,835.00            | 9,493.27            | 7,747.96            | 47.39           | 34.12       | -18.76                | 1,409.27                          | 7,439.31   | 5,962.11             | 5,896.83              | 65.28                   | 91.326            |                    |         |
| 10,600.00                                     | 8,835.00            | 9,503.84            | 7,747.15            | 48.91           | 34.24       | -18.22                | 1,398.75                          | 7,439.85   | 5,863.81             | 5,798.41              | 65.40                   | 89.656            |                    |         |
| 10,700.00                                     | 8,835.00            | 9,519.05            | 7,746.12            | 50.47           | 34.42       | -17.44                | 1,383.59                          | 7,440.64   | 5,765.56             | 5,699.98              | 65.58                   | 87.920            |                    |         |
| 10,800.00                                     | 8,835.00            | 9,534.27            | 7,745.25            | 52.06           | 34.60       | -16.65                | 1,368.41                          | 7,441.42   | 5,667.36             | 5,601.61              | 65.75                   | 86.193            |                    |         |
| 10,900.00                                     | 8,835.00            | 10,900.00           | 7,741.95            | 53.68           | 51.24       | -5.66                 | 1,162.37                          | 7,449.60   | 5,569.04             | 5,486.87              | 82.17                   | 67.774            |                    |         |
| 11,000.00                                     | 8,835.00            | 11,000.00           | 7,741.95            | 55.32           | 52.46       | -5.55                 | 1,160.41                          | 7,449.65   | 5,470.83             | 5,387.47              | 83.36                   | 65.626            |                    |         |
| 11,100.00                                     | 8,835.00            | 9,815.09            | 7,743.36            | 57.00           | 37.99       | -1.56                 | 1,087.87                          | 7,451.29   | 5,372.74             | 5,303.66              | 69.08                   | 77.780            |                    |         |
| 11,200.00                                     | 8,835.00            | 9,817.79            | 7,743.46            | 58.70           | 38.03       | -1.41                 | 1,085.17                          | 7,451.34   | 5,274.64             | 5,205.54              | 69.10                   | 76.333            |                    |         |
| 11,300.00                                     | 8,835.00            | 9,820.42            | 7,743.56            | 60.41           | 38.06       | -1.26                 | 1,082.55                          | 7,451.39   | 5,176.62             | 5,107.49              | 69.12                   | 74.888            |                    |         |
| 11,400.00                                     | 8,835.00            | 9,822.97            | 7,743.65            | 62.15           | 38.09       | -1.12                 | 1,079.99                          | 7,451.44   | 5,078.67             | 5,009.52              | 69.15                   | 73.445            |                    |         |
| 11,500.00                                     | 8,835.00            | 9,825.46            | 7,743.75            | 63.91           | 38.12       | -0.98                 | 1,077.51                          | 7,451.48   | 4,980.81             | 4,911.63              | 69.17                   | 72.004            |                    |         |
| 11,600.00                                     | 8,835.00            | 9,827.89            | 7,743.85            | 65.69           | 38.15       | -0.85                 | 1,075.09                          | 7,451.52   | 4,883.03             | 4,813.83              | 69.20                   | 70.566            |                    |         |
| 11,700.00                                     | 8,835.00            | 9,830.25            | 7,743.94            | 67.47           | 38.18       | -0.72                 | 1,072.73                          | 7,451.57   | 4,785.34             | 4,716.12              | 69.22                   | 69.130            |                    |         |
| 11,800.00                                     | 8,835.00            | 9,832.55            | 7,744.03            | 69.28           | 38.21       | -0.59                 | 1,070.43                          | 7,451.61   | 4,687.75             | 4,618.50              | 69.25                   | 67.696            |                    |         |
| 11,900.00                                     | 8,835.00            | 9,834.79            | 7,744.12            | 71.09           | 38.24       | -0.47                 | 1,068.19                          | 7,451.65   | 4,590.26             | 4,520.99              | 69.27                   | 66.264            |                    |         |
| 12,000.00                                     | 8,835.00            | 9,836.98            | 7,744.21            | 72.92           | 38.26       | -0.35                 | 1,066.00                          | 7,451.68   | 4,492.88             | 4,423.59              | 69.30                   | 64.835            |                    |         |
| 12,100.00                                     | 8,835.00            | 9,839.11            | 7,744.30            | 74.76           | 38.29       | -0.23                 | 1,063.87                          | 7,451.72   | 4,395.62             | 4,326.30              | 69.32                   | 63.408            |                    |         |
| 12,200.00                                     | 8,835.00            | 9,841.19            | 7,744.39            | 76.61           | 38.31       | -0.11                 | 1,061.79                          | 7,451.75   | 4,298.49             | 4,229.14              | 69.35                   | 61.983            |                    |         |
| 12,300.00                                     | 8,835.00            | 9,843.23            | 7,744.48            | 78.47           | 38.34       | 0.00                  | 1,059.76                          | 7,451.79   | 4,201.48             | 4,132.11              | 69.38                   | 60.560            |                    |         |
| 12,400.00                                     | 8,835.00            | 9,845.21            | 7,744.56            | 80.34           | 38.36       | 0.11                  | 1,057.78                          | 7,451.82   | 4,104.63             | 4,035.22              | 69.41                   | 59.139            |                    |         |
| 12,500.00                                     | 8,835.00            | 9,847.15            | 7,744.64            | 82.22           | 38.39       | 0.22                  | 1,055.84                          | 7,451.85   | 4,007.92             | 3,938.48              | 69.44                   | 57.721            |                    |         |
| 12,600.00                                     | 8,835.00            | 9,849.04            | 7,744.73            | 84.11           | 38.41       | 0.32                  | 1,053.95                          | 7,451.88   | 3,911.38             | 3,841.91              | 69.47                   | 56.305            |                    |         |
| 12,700.00                                     | 8,835.00            | 9,850.89            | 7,744.81            | 86.00           | 38.43       | 0.43                  | 1,052.11                          | 7,451.92   | 3,815.02             | 3,745.52              | 69.50                   | 54.891            |                    |         |
| 12,800.00                                     | 8,835.00            | 9,852.70            | 7,744.89            | 87.90           | 38.46       | 0.53                  | 1,050.30                          | 7,451.94   | 3,718.85             | 3,649.31              | 69.54                   | 53.480            |                    |         |
| 12,900.00                                     | 8,835.00            | 9,854.46            | 7,744.97            | 89.81           | 38.48       | 0.62                  | 1,048.53                          | 7,451.97   | 3,622.88             | 3,553.31              | 69.58                   | 52.071            |                    |         |
| 13,000.00                                     | 8,835.00            | 9,856.19            | 7,745.04            | 91.72           | 38.50       | 0.72                  | 1,046.81                          | 7,452.00   | 3,527.15             | 3,457.53              | 69.62                   | 50.664            |                    |         |
| 13,100.00                                     | 8,835.00            | 9,857.88            | 7,745.12            | 93.64           | 38.52       | 0.81                  | 1,045.12                          | 7,452.03   | 3,431.65             | 3,361.98              | 69.66                   | 49.260            |                    |         |
| 13,200.00                                     | 8,835.00            | 9,859.54            | 7,745.20            | 95.56           | 38.54       | 0.91                  | 1,043.47                          | 7,452.05   | 3,336.41             | 3,266.70              | 69.71                   | 47.859            |                    |         |
| 13,300.00                                     | 8,835.00            | 9,861.15            | 7,745.27            | 97.49           | 38.56       | 1.00                  | 1,041.85                          | 7,452.08   | 3,241.47             | 3,171.70              | 69.77                   | 46.460            |                    |         |
| 13,400.00                                     | 8,835.00            | 9,862.74            | 7,745.34            | 99.42           | 38.58       | 1.08                  | 1,040.27                          | 7,452.10   | 3,146.83             | 3,077.00              | 69.83                   | 45.065            |                    |         |
| 13,500.00                                     | 8,835.00            | 9,864.29            | 7,745.41            | 101.36          | 38.60       | 1.17                  | 1,038.72                          | 7,452.13   | 3,052.54             | 2,982.64              | 69.90                   | 43.672            |                    |         |
| 13,600.00                                     | 8,835.00            | 9,865.81            | 7,745.49            | 103.30          | 38.62       | 1.25                  | 1,037.20                          | 7,452.15   | 2,958.62             | 2,888.65              | 69.97                   | 42.283            |                    |         |
| 13,700.00                                     | 8,835.00            | 9,867.30            | 7,745.56            | 105.25          | 38.64       | 1.34                  | 1,035.72                          | 7,452.17   | 2,865.11             | 2,795.05              | 70.06                   | 40.897            |                    |         |
| 13,800.00                                     | 8,835.00            | 9,868.75            | 7,745.62            | 107.20          | 38.65       | 1.42                  | 1,034.26                          | 7,452.19   | 2,772.06             | 2,701.90              | 70.15                   | 39.515            |                    |         |
| 13,900.00                                     | 8,835.00            | 9,870.18            | 7,745.69            | 109.15          | 38.67       | 1.50                  | 1,032.84                          | 7,452.22   | 2,679.50             | 2,609.24              | 70.26                   | 38.137            |                    |         |
| 14,000.00                                     | 8,835.00            | 9,871.58            | 7,745.76            | 111.10          | 38.69       | 1.57                  | 1,031.44                          | 7,452.24   | 2,587.50             | 2,517.12              | 70.38                   | 36.763            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |        | Sec 13-T21S-R27E - Lone Tree Draw State 7H - Wellbore #1 - Wellbore #1 |         | Offset Site Error: 5.00 ft |  |
|-----------------------------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|--------|------------------------------------------------------------------------|---------|----------------------------|--|
| Survey Program: 100-GYRO-NS-CT, 2922-MWD+HDGM |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |        | Offset Well Error: 0.50 ft                                             |         |                            |  |
| Reference                                     |                | Offset         |                | Semi Major Axis |        |                   | Distance               |                 |                  |                    |                   |        |                                                                        | Warning |                            |  |
| Measured Depth                                | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor |        |                                                                        |         |                            |  |
| (ft)                                          | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft)      | (ft)             | (ft)               | (ft)              |        |                                                                        |         |                            |  |
| 14,100.00                                     | 8,835.00       | 9,872.95       | 7,745.83       | 113.06          | 38.71  | 1.65              | 1,030.07               | 7,452.26        | 2,496.11         | 2,425.59           | 70.52             | 35.395 |                                                                        |         |                            |  |
| 14,200.00                                     | 8,835.00       | 9,874.30       | 7,745.89       | 115.03          | 38.72  | 1.72              | 1,028.72               | 7,452.28        | 2,405.41         | 2,334.73           | 70.68             | 34.033 |                                                                        |         |                            |  |
| 14,300.00                                     | 8,835.00       | 9,875.62       | 7,745.96       | 116.99          | 38.74  | 1.80              | 1,027.41               | 7,452.30        | 2,315.48         | 2,244.62           | 70.86             | 32.677 |                                                                        |         |                            |  |
| 14,400.00                                     | 8,835.00       | 9,876.91       | 7,746.02       | 118.96          | 38.75  | 1.87              | 1,026.12               | 7,452.32        | 2,226.40         | 2,155.33           | 71.07             | 31.329 |                                                                        |         |                            |  |
| 14,500.00                                     | 8,835.00       | 9,878.18       | 7,746.08       | 120.93          | 38.77  | 1.94              | 1,024.85               | 7,452.33        | 2,138.29         | 2,066.99           | 71.30             | 29.990 |                                                                        |         |                            |  |
| 14,600.00                                     | 8,835.00       | 9,879.43       | 7,746.14       | 122.90          | 38.79  | 2.01              | 1,023.60               | 7,452.35        | 2,051.26         | 1,979.69           | 71.57             | 28.662 |                                                                        |         |                            |  |
| 14,700.00                                     | 8,835.00       | 9,880.65       | 7,746.20       | 124.88          | 38.80  | 2.08              | 1,022.38               | 7,452.37        | 1,965.47         | 1,893.60           | 71.87             | 27.346 |                                                                        |         |                            |  |
| 14,800.00                                     | 8,835.00       | 9,881.85       | 7,746.26       | 126.86          | 38.82  | 2.14              | 1,021.18               | 7,452.39        | 1,881.09         | 1,808.87           | 72.22             | 26.046 |                                                                        |         |                            |  |
| 14,900.00                                     | 8,835.00       | 9,883.03       | 7,746.32       | 128.84          | 38.83  | 2.21              | 1,020.01               | 7,452.40        | 1,798.31         | 1,725.69           | 72.62             | 24.764 |                                                                        |         |                            |  |
| 15,000.00                                     | 8,835.00       | 9,884.18       | 7,746.38       | 130.82          | 38.84  | 2.27              | 1,018.85               | 7,452.42        | 1,717.36         | 1,644.29           | 73.07             | 23.504 |                                                                        |         |                            |  |
| 15,100.00                                     | 8,835.00       | 9,885.32       | 7,746.44       | 132.80          | 38.86  | 2.34              | 1,017.72               | 7,452.44        | 1,638.51         | 1,564.94           | 73.57             | 22.271 |                                                                        |         |                            |  |
| 15,200.00                                     | 8,835.00       | 9,886.43       | 7,746.49       | 134.79          | 38.87  | 2.40              | 1,016.61               | 7,452.45        | 1,562.09         | 1,487.95           | 74.14             | 21.070 |                                                                        |         |                            |  |
| 15,300.00                                     | 8,835.00       | 9,887.53       | 7,746.55       | 136.78          | 38.89  | 2.46              | 1,015.51               | 7,452.47        | 1,488.46         | 1,413.70           | 74.77             | 19.908 |                                                                        |         |                            |  |
| 15,400.00                                     | 8,835.00       | 9,888.61       | 7,746.61       | 138.76          | 38.90  | 2.52              | 1,014.44               | 7,452.48        | 1,418.07         | 1,342.61           | 75.46             | 18.793 |                                                                        |         |                            |  |
| 15,500.00                                     | 8,835.00       | 9,889.66       | 7,746.66       | 140.76          | 38.91  | 2.58              | 1,013.38               | 7,452.50        | 1,351.41         | 1,275.20           | 76.21             | 17.732 |                                                                        |         |                            |  |
| 15,600.00                                     | 8,835.00       | 9,890.70       | 7,746.71       | 142.75          | 38.92  | 2.64              | 1,012.34               | 7,452.51        | 1,289.08         | 1,212.06           | 77.02             | 16.737 |                                                                        |         |                            |  |
| 15,700.00                                     | 8,835.00       | 9,891.73       | 7,746.77       | 144.74          | 38.94  | 2.69              | 1,011.32               | 7,452.52        | 1,231.71         | 1,153.84           | 77.87             | 15.817 |                                                                        |         |                            |  |
| 15,800.00                                     | 8,835.00       | 9,892.73       | 7,746.82       | 146.74          | 38.96  | 2.73              | 1,010.31               | 7,452.53        | 1,180.09         | 1,101.42           | 78.67             | 15.001 |                                                                        |         |                            |  |
| 15,900.00                                     | 8,835.00       | 9,893.73       | 7,746.87       | 148.73          | 38.97  | 2.77              | 1,009.31               | 7,452.54        | 1,134.91         | 1,055.33           | 79.58             | 14.260 |                                                                        |         |                            |  |
| 16,000.00                                     | 8,835.00       | 9,894.73       | 7,746.92       | 150.73          | 38.98  | 2.81              | 1,008.31               | 7,452.55        | 1,097.01         | 1,016.48           | 80.53             | 13.622 |                                                                        |         |                            |  |
| 16,100.00                                     | 8,835.00       | 9,895.73       | 7,746.97       | 152.73          | 38.99  | 2.85              | 1,007.31               | 7,452.56        | 1,067.16         | 985.64             | 81.51             | 13.092 |                                                                        |         |                            |  |
| 16,200.00                                     | 8,835.00       | 9,896.73       | 7,747.02       | 154.73          | 38.99  | 2.89              | 1,006.31               | 7,452.57        | 1,046.05         | 963.50             | 82.55             | 12.671 |                                                                        |         |                            |  |
| 16,300.00                                     | 8,835.00       | 9,897.73       | 7,747.07       | 156.73          | 38.99  | 2.93              | 1,005.31               | 7,452.58        | 1,034.22         | 950.56             | 83.67             | 12.361 |                                                                        |         |                            |  |
| 16,373.02                                     | 8,835.00       | 9,898.96       | 7,747.12       | 158.20          | 38.99  | 2.97              | 1,004.31               | 7,452.59        | 1,031.64         | 947.12             | 84.52             | 12.206 | CC, ES                                                                 |         |                            |  |
| 16,400.00                                     | 8,835.00       | 9,899.24       | 7,747.17       | 158.74          | 38.99  | 2.99              | 1,003.80               | 7,452.59        | 1,032.00         | 947.15             | 84.84             | 12.164 |                                                                        |         |                            |  |
| 16,500.00                                     | 8,835.00       | 9,899.90       | 7,747.22       | 160.74          | 38.99  | 2.99              | 1,003.14               | 7,452.50        | 1,039.43         | 953.39             | 86.04             | 12.081 | SF                                                                     |         |                            |  |
| 16,600.00                                     | 8,835.00       | 9,899.56       | 7,747.24       | 162.74          | 38.93  | 2.63              | 1,012.48               | 7,452.51        | 1,056.32         | 969.14             | 87.18             | 12.117 |                                                                        |         |                            |  |
| 16,700.00                                     | 8,835.00       | 9,891.22       | 7,746.67       | 164.75          | 38.93  | 2.66              | 1,011.83               | 7,452.52        | 1,082.22         | 994.04             | 88.18             | 12.273 |                                                                        |         |                            |  |
| 16,800.00                                     | 8,835.00       | 9,891.87       | 7,746.70       | 166.76          | 38.94  | 2.70              | 1,011.18               | 7,452.53        | 1,116.51         | 1,027.53           | 88.98             | 12.548 |                                                                        |         |                            |  |
| 16,900.00                                     | 8,835.00       | 9,892.52       | 7,746.72       | 168.77          | 38.95  | 2.74              | 1,010.53               | 7,452.54        | 1,158.44         | 1,068.88           | 89.56             | 12.935 |                                                                        |         |                            |  |
| 17,000.00                                     | 8,835.00       | 9,893.16       | 7,746.75       | 170.77          | 38.96  | 2.77              | 1,009.88               | 7,452.55        | 1,207.22         | 1,117.30           | 89.92             | 13.426 |                                                                        |         |                            |  |
| 17,100.00                                     | 8,835.00       | 9,893.80       | 7,746.78       | 172.78          | 38.97  | 2.81              | 1,009.24               | 7,452.56        | 1,262.05         | 1,171.97           | 90.08             | 14.011 |                                                                        |         |                            |  |
| 17,200.00                                     | 8,835.00       | 9,894.44       | 7,746.81       | 174.79          | 38.97  | 2.84              | 1,008.61               | 7,452.57        | 1,322.18         | 1,232.11           | 90.07             | 14.679 |                                                                        |         |                            |  |
| 17,300.00                                     | 8,835.00       | 9,895.08       | 7,746.84       | 176.81          | 38.98  | 2.88              | 1,007.97               | 7,452.58        | 1,386.92         | 1,296.98           | 89.94             | 15.421 |                                                                        |         |                            |  |
| 17,400.00                                     | 8,835.00       | 9,895.71       | 7,746.86       | 178.82          | 38.99  | 2.91              | 1,007.34               | 7,452.59        | 1,455.65         | 1,365.95           | 89.71             | 16.227 |                                                                        |         |                            |  |
| 17,500.00                                     | 8,835.00       | 9,896.34       | 7,746.89       | 180.83          | 39.00  | 2.95              | 1,006.71               | 7,452.60        | 1,527.85         | 1,438.43           | 89.41             | 17.087 |                                                                        |         |                            |  |
| 17,600.00                                     | 8,835.00       | 9,896.96       | 7,746.92       | 182.84          | 39.01  | 2.98              | 1,006.09               | 7,452.60        | 1,603.03         | 1,513.95           | 89.08             | 17.996 |                                                                        |         |                            |  |
| 17,700.00                                     | 8,835.00       | 9,897.58       | 7,746.94       | 184.86          | 39.01  | 3.02              | 1,005.47               | 7,452.61        | 1,680.80         | 1,592.08           | 88.72             | 18.945 |                                                                        |         |                            |  |
| 17,800.00                                     | 8,835.00       | 9,898.20       | 7,746.97       | 186.87          | 39.02  | 3.05              | 1,004.85               | 7,452.62        | 1,760.81         | 1,672.47           | 88.35             | 19.930 |                                                                        |         |                            |  |
| 17,900.00                                     | 8,835.00       | 9,898.82       | 7,746.99       | 188.89          | 39.03  | 3.09              | 1,004.23               | 7,452.63        | 1,842.78         | 1,754.80           | 87.98             | 20.946 |                                                                        |         |                            |  |
| 18,000.00                                     | 8,835.00       | 9,899.43       | 7,747.02       | 190.91          | 39.04  | 3.12              | 1,003.62               | 7,452.64        | 1,926.45         | 1,838.84           | 87.62             | 21.988 |                                                                        |         |                            |  |
| 18,100.00                                     | 8,835.00       | 9,900.04       | 7,747.05       | 192.92          | 39.04  | 3.15              | 1,003.01               | 7,452.65        | 2,011.62         | 1,924.35           | 87.26             | 23.052 |                                                                        |         |                            |  |
| 18,200.00                                     | 8,835.00       | 9,900.65       | 7,747.07       | 194.94          | 39.05  | 3.19              | 1,002.41               | 7,452.66        | 2,098.09         | 2,011.16           | 86.93             | 24.136 |                                                                        |         |                            |  |
| 18,300.00                                     | 8,835.00       | 9,901.25       | 7,747.10       | 196.96          | 39.06  | 3.22              | 1,001.80               | 7,452.66        | 2,185.72         | 2,099.11           | 86.61             | 25.236 |                                                                        |         |                            |  |
| 18,400.00                                     | 8,835.00       | 9,901.85       | 7,747.12       | 198.98          | 39.07  | 3.25              | 1,001.20               | 7,452.67        | 2,274.37         | 2,188.05           | 86.31             | 26.351 |                                                                        |         |                            |  |
| 18,500.00                                     | 8,835.00       | 9,902.45       | 7,747.14       | 201.00          | 39.07  | 3.29              | 1,000.61               | 7,452.68        | 2,363.92         | 2,277.89           | 86.03             | 27.478 |                                                                        |         |                            |  |
| 18,600.00                                     | 8,835.00       | 9,903.04       | 7,747.17       | 203.02          | 39.08  | 3.32              | 1,000.01               | 7,452.69        | 2,454.28         | 2,368.51           | 85.77             | 28.615 |                                                                        |         |                            |  |
| 18,700.00                                     | 8,835.00       | 9,903.63       | 7,747.19       | 205.04          | 39.09  | 3.35              | 999.42                 | 7,452.70        | 2,545.36         | 2,459.84           | 85.52             | 29.762 |                                                                        |         |                            |  |
| 18,800.00                                     | 8,835.00       | 9,904.22       | 7,747.22       | 207.06          | 39.10  | 3.39              | 998.84                 | 7,452.70        | 2,637.09         | 2,551.79           | 85.30             | 30.916 |                                                                        |         |                            |  |
| 18,900.00                                     | 8,835.00       | 9,904.80       | 7,747.24       | 209.08          | 39.10  | 3.42              | 998.25                 | 7,452.71        | 2,729.40         | 2,644.31           | 85.09             | 32.077 |                                                                        |         |                            |  |
| 19,000.00                                     | 8,835.00       | 9,905.39       | 7,747.26       | 211.10          | 39.11  | 3.45              | 997.67                 | 7,452.72        | 2,822.23         | 2,737.33           | 84.90             | 33.243 |                                                                        |         |                            |  |
| 19,100.00                                     | 8,835.00       | 9,905.97       | 7,747.29       | 213.12          | 39.12  | 3.48              | 997.09                 | 7,452.73        | 2,915.54         | 2,830.82           | 84.72             | 34.414 |                                                                        |         |                            |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

|                                                                        |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            |                           |         |
|------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|-----------------------------------------|---------------|-------------------------|--------------------------|----------------------------|---------------------------|---------|
| <b>Offset Design</b>                                                   |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Site Error:</b> | 5.00 ft |
| Sec 13-T21S-R27E - Lone Tree Draw State 7H - Wellbore #1 - Wellbore #1 |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Well Error:</b> | 0.50 ft |
| Survey Program: 100-GYRO-NS-CT, 2922-MWD+HDGM                          |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            |                           |         |
| Reference                                                              |                        | Offset                 |                        | Semi Major Axis   |                |                          | Distance                                |               |                         |                          |                            |                           | Warning |
| Measured Depth<br>(ft)                                                 | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between Centres<br>(ft) | Between Ellipses<br>(ft) | Minimum Separation<br>(ft) | Separation Factor         |         |
| 19,200.00                                                              | 8,835.00               | 9,906.54               | 7,747.31               | 215.15            | 39.12          | 3.52                     | 996.51                                  | 7,452.74      | 3,009.27                | 2,924.71                 | 84.56                      | 35.588                    |         |
| 19,308.27                                                              | 8,835.00               | 9,907.16               | 7,747.34               | 217.34            | 39.13          | 3.55                     | 995.89                                  | 7,452.75      | 3,111.20                | 3,026.80                 | 84.40                      | 36.864                    |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 80-GYRO-NS-CT, 4361-MWD+HDMG |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                                         | 0.00                | 0.00                | 0.00                | 0.50            | 5.02        | 61.82                 | 3,098.47                          | 5,783.09   | 6,561.05             |                       |                         |                   |                    |         |
| 100.00                                       | 100.00              | 44.15               | 44.15               | 0.52            | 5.03        | 61.82                 | 3,098.46                          | 5,783.11   | 6,560.86             | 6,555.31              | 5.54                    | 1,183.637         |                    |         |
| 200.00                                       | 200.00              | 139.73              | 139.73              | 0.70            | 5.03        | 61.82                 | 3,098.39                          | 5,783.26   | 6,560.96             | 6,555.23              | 5.74                    | 1,143.782         |                    |         |
| 300.00                                       | 300.00              | 235.12              | 235.12              | 0.99            | 5.07        | 61.82                 | 3,098.28                          | 5,783.49   | 6,561.12             | 6,555.07              | 6.05                    | 1,084.034         |                    |         |
| 400.00                                       | 400.00              | 332.24              | 332.24              | 1.31            | 5.12        | 61.82                 | 3,098.14                          | 5,783.82   | 6,561.35             | 6,554.92              | 6.43                    | 1,020.730         |                    |         |
| 500.00                                       | 500.00              | 425.78              | 425.77              | 1.65            | 5.19        | 61.83                 | 3,097.94                          | 5,784.22   | 6,561.63             | 6,554.79              | 6.84                    | 959.655           |                    |         |
| 600.00                                       | 600.00              | 519.62              | 519.61              | 1.99            | 5.28        | 61.83                 | 3,097.68                          | 5,784.79   | 6,562.03             | 6,554.75              | 7.27                    | 902.111           |                    |         |
| 700.00                                       | 700.00              | 610.56              | 610.55              | 2.34            | 5.39        | 61.84                 | 3,097.30                          | 5,785.50   | 6,562.52             | 6,554.79              | 7.73                    | 849.000           |                    |         |
| 800.00                                       | 800.00              | 709.60              | 709.59              | 2.69            | 5.53        | 61.85                 | 3,096.77                          | 5,786.47   | 6,563.13             | 6,554.92              | 8.22                    | 798.807           |                    |         |
| 900.00                                       | 900.00              | 805.23              | 805.20              | 3.04            | 5.68        | 61.86                 | 3,095.91                          | 5,787.58   | 6,563.73             | 6,555.01              | 8.72                    | 752.979           |                    |         |
| 1,000.00                                     | 1,000.00            | 893.68              | 893.64              | 3.40            | 5.83        | 61.87                 | 3,094.99                          | 5,788.81   | 6,564.47             | 6,555.24              | 9.22                    | 711.818           |                    |         |
| 1,100.00                                     | 1,100.00            | 984.35              | 984.29              | 3.75            | 5.99        | 61.88                 | 3,093.88                          | 5,790.34   | 6,565.38             | 6,555.64              | 9.75                    | 673.708           |                    |         |
| 1,200.00                                     | 1,200.00            | 1,087.89            | 1,087.80            | 4.11            | 6.20        | 61.90                 | 3,092.43                          | 5,792.27   | 6,566.36             | 6,556.05              | 10.31                   | 637.046           |                    |         |
| 1,300.00                                     | 1,300.00            | 1,199.53            | 1,199.40            | 4.46            | 6.44        | 61.93                 | 3,090.37                          | 5,794.42   | 6,567.19             | 6,556.29              | 10.90                   | 602.295           |                    |         |
| 1,400.00                                     | 1,400.00            | 1,308.67            | 1,308.48            | 4.82            | 6.69        | 61.96                 | 3,087.61                          | 5,796.72   | 6,567.86             | 6,556.35              | 11.51                   | 570.577           |                    |         |
| 1,500.00                                     | 1,500.00            | 8,298.97            | 4,955.97            | 5.18            | 53.99       | 95.38                 | -517.11                           | 5,495.56   | 6,540.11             | 6,487.52              | 52.59                   | 124.363           |                    |         |
| 1,600.00                                     | 1,600.00            | 8,329.00            | 4,956.38            | 5.53            | 54.40       | 95.69                 | -546.99                           | 5,492.67   | 6,487.24             | 6,433.70              | 53.54                   | 121.174           |                    |         |
| 1,700.00                                     | 1,700.00            | 8,329.00            | 4,956.38            | 5.89            | 54.40       | 95.69                 | -546.99                           | 5,492.67   | 6,435.27             | 6,381.14              | 54.13                   | 118.893           |                    |         |
| 1,800.00                                     | 1,800.00            | 8,329.00            | 4,956.38            | 6.25            | 54.40       | 95.69                 | -546.99                           | 5,492.67   | 6,384.43             | 6,329.71              | 54.72                   | 116.670           |                    |         |
| 1,900.00                                     | 1,900.00            | 8,329.00            | 4,956.38            | 6.61            | 54.40       | 95.69                 | -546.99                           | 5,492.67   | 6,334.77             | 6,279.45              | 55.32                   | 114.507           |                    |         |
| 2,000.00                                     | 2,000.00            | 8,329.00            | 4,956.38            | 6.96            | 54.40       | 95.69                 | -546.99                           | 5,492.67   | 6,286.31             | 6,230.39              | 55.93                   | 112.404           |                    |         |
| 2,100.00                                     | 2,099.99            | 8,329.00            | 4,956.38            | 7.32            | 54.40       | 108.97                | -546.99                           | 5,492.67   | 6,239.33             | 6,182.79              | 56.53                   | 110.368           |                    |         |
| 2,200.00                                     | 2,199.96            | 8,329.00            | 4,956.38            | 7.68            | 54.40       | 109.45                | -546.99                           | 5,492.67   | 6,194.10             | 6,136.96              | 57.14                   | 108.402           |                    |         |
| 2,300.00                                     | 2,299.86            | 8,329.00            | 4,956.38            | 8.04            | 54.40       | 109.90                | -546.99                           | 5,492.67   | 6,150.70             | 6,092.95              | 57.75                   | 106.503           |                    |         |
| 2,400.00                                     | 2,399.68            | 8,298.61            | 4,955.96            | 8.39            | 53.98       | 110.02                | -516.75                           | 5,495.60   | 6,108.92             | 6,050.94              | 57.98                   | 105.363           |                    |         |
| 2,500.00                                     | 2,499.37            | 8,296.69            | 4,955.94            | 8.75            | 53.96       | 110.41                | -514.84                           | 5,495.80   | 6,069.28             | 6,010.71              | 58.57                   | 103.630           |                    |         |
| 2,600.00                                     | 2,598.90            | 8,294.25            | 4,955.90            | 9.11            | 53.92       | 110.76                | -512.41                           | 5,496.05   | 6,031.59             | 5,972.44              | 59.15                   | 101.976           |                    |         |
| 2,700.00                                     | 2,698.26            | 8,291.29            | 4,955.87            | 9.46            | 53.88       | 111.09                | -509.47                           | 5,496.36   | 5,995.91             | 5,936.19              | 59.72                   | 100.401           |                    |         |
| 2,800.00                                     | 2,797.40            | 8,287.82            | 4,955.82            | 9.82            | 53.84       | 111.39                | -506.02                           | 5,496.72   | 5,962.28             | 5,902.00              | 60.28                   | 98.904            |                    |         |
| 2,900.00                                     | 2,896.30            | 8,283.83            | 4,955.77            | 10.18           | 53.78       | 111.66                | -502.05                           | 5,497.15   | 5,930.75             | 5,869.91              | 60.84                   | 97.485            |                    |         |
| 3,000.00                                     | 2,994.93            | 8,279.32            | 4,955.71            | 10.54           | 53.72       | 111.90                | -497.57                           | 5,497.64   | 5,901.35             | 5,839.96              | 61.38                   | 96.143            |                    |         |
| 3,100.00                                     | 3,093.26            | 8,274.31            | 4,955.64            | 10.90           | 53.65       | 112.11                | -492.59                           | 5,498.20   | 5,874.11             | 5,812.20              | 61.91                   | 94.876            |                    |         |
| 3,195.07                                     | 3,186.42            | 8,269.07            | 4,955.57            | 11.24           | 53.58       | 112.29                | -487.38                           | 5,498.79   | 5,850.27             | 5,787.86              | 62.41                   | 93.741            |                    |         |
| 3,200.00                                     | 3,191.25            | 8,268.78            | 4,955.57            | 11.26           | 53.58       | 112.28                | -487.10                           | 5,498.82   | 5,849.09             | 5,786.65              | 62.43                   | 93.684            |                    |         |
| 3,300.00                                     | 3,289.08            | 8,234.00            | 4,955.14            | 11.62           | 53.10       | 111.94                | -452.57                           | 5,503.01   | 5,826.17             | 5,763.60              | 62.57                   | 93.117            |                    |         |
| 3,400.00                                     | 3,386.91            | 8,234.00            | 4,955.14            | 11.98           | 53.10       | 111.94                | -452.57                           | 5,503.01   | 5,804.56             | 5,741.41              | 63.15                   | 91.919            |                    |         |
| 3,500.00                                     | 3,484.74            | 8,234.00            | 4,955.14            | 12.35           | 53.10       | 111.94                | -452.57                           | 5,503.01   | 5,784.59             | 5,720.87              | 63.72                   | 90.779            |                    |         |
| 3,600.00                                     | 3,582.58            | 8,234.00            | 4,955.14            | 12.72           | 53.10       | 111.94                | -452.57                           | 5,503.01   | 5,766.29             | 5,702.00              | 64.29                   | 89.697            |                    |         |
| 3,700.00                                     | 3,680.41            | 8,234.00            | 4,955.14            | 13.09           | 53.10       | 111.94                | -452.57                           | 5,503.01   | 5,749.67             | 5,684.83              | 64.84                   | 88.672            |                    |         |
| 3,800.00                                     | 3,778.24            | 8,234.00            | 4,955.14            | 13.46           | 53.10       | 111.94                | -452.57                           | 5,503.01   | 5,734.75             | 5,669.36              | 65.39                   | 87.703            |                    |         |
| 3,900.00                                     | 3,876.08            | 8,220.87            | 4,954.96            | 13.83           | 52.92       | 111.81                | -439.55                           | 5,504.68   | 5,721.51             | 5,655.76              | 65.75                   | 87.017            |                    |         |
| 4,000.00                                     | 3,973.91            | 8,207.32            | 4,954.74            | 14.21           | 52.74       | 111.67                | -426.12                           | 5,506.43   | 5,709.95             | 5,643.86              | 66.10                   | 86.387            |                    |         |
| 4,100.00                                     | 4,071.74            | 8,194.16            | 4,954.50            | 14.58           | 52.56       | 111.54                | -413.07                           | 5,508.14   | 5,700.09             | 5,633.65              | 66.44                   | 85.797            |                    |         |
| 4,200.00                                     | 4,169.57            | 8,181.36            | 4,954.23            | 14.96           | 52.39       | 111.41                | -400.39                           | 5,509.82   | 5,691.92             | 5,625.15              | 66.77                   | 85.250            |                    |         |
| 4,300.00                                     | 4,267.41            | 8,168.91            | 4,953.95            | 15.33           | 52.22       | 111.29                | -388.05                           | 5,511.47   | 5,685.46             | 5,618.37              | 67.09                   | 84.745            |                    |         |
| 4,400.00                                     | 4,365.24            | 8,156.80            | 4,953.64            | 15.71           | 52.06       | 111.17                | -376.05                           | 5,513.09   | 5,680.72             | 5,613.32              | 67.40                   | 84.282            |                    |         |
| 4,500.00                                     | 4,463.07            | 8,140.00            | 4,953.17            | 16.09           | 51.83       | 111.00                | -359.41                           | 5,515.36   | 5,677.70             | 5,610.07              | 67.64                   | 83.942            |                    |         |
| 4,600.00                                     | 4,560.90            | 8,132.36            | 4,952.94            | 16.47           | 51.73       | 110.93                | -351.85                           | 5,516.39   | 5,676.41             | 5,608.43              | 67.98                   | 83.500            |                    |         |
| 4,625.09                                     | 4,585.45            | 8,128.98            | 4,952.84            | 16.56           | 51.68       | 110.89                | -348.50                           | 5,516.85   | 5,676.35             | 5,608.31              | 68.05                   | 83.420            |                    |         |
| 4,700.00                                     | 4,658.74            | 8,118.85            | 4,952.55            | 16.85           | 51.54       | 110.79                | -338.46                           | 5,518.23   | 5,676.84             | 5,608.61              | 68.23                   | 83.200            |                    |         |
| 4,800.00                                     | 4,756.57            | 8,105.26            | 4,952.16            | 17.23           | 51.36       | 110.66                | -325.01                           | 5,520.09   | 5,678.99             | 5,610.52              | 68.46                   | 82.948            |                    |         |
| 4,900.00                                     | 4,854.40            | 8,091.59            | 4,951.77            | 17.61           | 51.17       | 110.52                | -311.48                           | 5,521.96   | 5,682.86             | 5,614.17              | 68.68                   | 82.741            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |         | Sec 13-T21S-R27E - Lone Tree Draw State Com 2H - ST01 - ST01 |         | Offset Site Error: 5.00 ft |  |
|----------------------------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|---------|--------------------------------------------------------------|---------|----------------------------|--|
| Survey Program: 80-GYRO-NS-CT, 4361-MWD+HDGM |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |         | Offset Well Error: 0.50 ft                                   |         |                            |  |
| Reference                                    |                | Offset         |                | Semi Major Axis |        |                   | Distance               |                 |                  |                    |                   |         |                                                              | Warning |                            |  |
| Measured Depth                               | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor |         |                                                              |         |                            |  |
| (ft)                                         | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft)      | (ft)             | (ft)               | (ft)              |         |                                                              |         |                            |  |
| 5,000.00                                     | 4,952.23       | 8,077.85       | 4,951.39       | 17.99           | 50.99  | 110.38            | -297.87                | 5,523.86        | 5,688.44         | 5,619.56           | 68.88             | 82.582  |                                                              |         |                            |  |
| 5,100.00                                     | 5,050.07       | 8,064.04       | 4,951.02       | 18.37           | 50.80  | 110.25            | -284.19                | 5,525.77        | 5,695.74         | 5,626.67           | 69.07             | 82.468  |                                                              |         |                            |  |
| 5,200.00                                     | 5,147.90       | 8,061.55       | 4,950.94       | 18.75           | 50.77  | 110.22            | -281.73                | 5,526.09        | 5,704.73         | 5,635.35           | 69.38             | 82.222  |                                                              |         |                            |  |
| 5,300.00                                     | 5,245.73       | 8,016.76       | 4,949.77       | 19.14           | 50.16  | 109.78            | -237.38                | 5,532.29        | 5,715.41         | 5,646.28           | 69.13             | 82.677  |                                                              |         |                            |  |
| 5,400.00                                     | 5,343.56       | 7,972.21       | 4,948.56       | 19.52           | 49.56  | 109.33            | -193.25                | 5,538.25        | 5,727.69         | 5,658.83           | 68.86             | 83.175  |                                                              |         |                            |  |
| 5,500.00                                     | 5,441.40       | 7,940.49       | 4,947.68       | 19.90           | 49.14  | 109.02            | -161.82                | 5,542.35        | 5,741.56         | 5,672.81           | 68.75             | 83.513  |                                                              |         |                            |  |
| 5,600.00                                     | 5,539.23       | 7,921.34       | 4,947.16       | 20.29           | 48.88  | 108.83            | -142.83                | 5,544.81        | 5,757.07         | 5,688.29           | 68.79             | 83.693  |                                                              |         |                            |  |
| 5,700.00                                     | 5,637.06       | 7,902.02       | 4,946.65       | 20.67           | 48.62  | 108.64            | -123.67                | 5,547.29        | 5,774.22         | 5,705.41           | 68.81             | 83.918  |                                                              |         |                            |  |
| 5,800.00                                     | 5,734.90       | 7,882.53       | 4,946.14       | 21.05           | 48.36  | 108.44            | -104.35                | 5,549.78        | 5,792.99         | 5,724.17           | 68.81             | 84.186  |                                                              |         |                            |  |
| 5,900.00                                     | 5,832.73       | 7,900.00       | 4,944.76       | 21.44           | 21.98  | 107.90            | -50.51                 | 5,556.51        | 5,813.29         | 5,770.40           | 42.90             | 135.523 |                                                              |         |                            |  |
| 6,000.00                                     | 5,930.56       | 7,818.12       | 4,944.53       | 21.83           | 47.49  | 107.80            | -40.47                 | 5,557.87        | 5,835.28         | 5,766.84           | 68.45             | 85.254  |                                                              |         |                            |  |
| 6,100.00                                     | 6,028.39       | 7,760.99       | 4,943.00       | 22.21           | 46.73  | 107.24            | 16.24                  | 5,564.65        | 5,858.68         | 5,790.76           | 67.92             | 86.259  |                                                              |         |                            |  |
| 6,200.00                                     | 6,126.23       | 7,737.74       | 4,942.36       | 22.60           | 46.42  | 107.01            | 39.32                  | 5,567.31        | 5,883.56         | 5,815.74           | 67.82             | 86.750  |                                                              |         |                            |  |
| 6,300.00                                     | 6,224.06       | 7,714.13       | 4,941.75       | 22.98           | 46.10  | 106.77            | 62.77                  | 5,569.99        | 5,909.97         | 5,842.26           | 67.71             | 87.287  |                                                              |         |                            |  |
| 6,400.00                                     | 6,321.89       | 7,690.14       | 4,941.16       | 23.37           | 45.78  | 106.53            | 86.61                  | 5,572.69        | 5,937.88         | 5,870.30           | 67.58             | 87.869  |                                                              |         |                            |  |
| 6,500.00                                     | 6,419.72       | 7,664.88       | 4,940.57       | 23.76           | 45.44  | 106.28            | 111.70                 | 5,575.52        | 5,967.26         | 5,899.84           | 67.42             | 88.512  |                                                              |         |                            |  |
| 6,600.00                                     | 6,517.56       | 7,622.70       | 4,939.65       | 24.14           | 44.88  | 105.87            | 153.61                 | 5,580.13        | 5,998.06         | 5,931.03           | 67.03             | 89.479  |                                                              |         |                            |  |
| 6,700.00                                     | 6,615.39       | 7,579.65       | 4,938.78       | 24.53           | 44.31  | 105.44            | 196.41                 | 5,584.67        | 6,030.25         | 5,963.62           | 66.63             | 90.506  |                                                              |         |                            |  |
| 6,800.00                                     | 6,713.22       | 7,572.00       | 4,938.63       | 24.92           | 44.20  | 105.36            | 204.02                 | 5,585.46        | 6,063.83         | 5,997.16           | 66.67             | 90.959  |                                                              |         |                            |  |
| 6,900.00                                     | 6,811.05       | 7,554.50       | 4,938.33       | 25.30           | 43.97  | 105.19            | 221.43                 | 5,587.29        | 6,098.81         | 6,032.24           | 66.57             | 91.617  |                                                              |         |                            |  |
| 7,000.00                                     | 6,908.89       | 7,544.57       | 4,938.19       | 25.69           | 43.84  | 105.09            | 231.29                 | 5,588.36        | 6,135.21         | 6,068.65           | 66.56             | 92.179  |                                                              |         |                            |  |
| 7,100.00                                     | 7,006.72       | 7,534.41       | 4,938.08       | 26.08           | 43.71  | 104.99            | 241.39                 | 5,589.48        | 6,172.98         | 6,106.44           | 66.53             | 92.778  |                                                              |         |                            |  |
| 7,200.00                                     | 7,104.55       | 7,524.00       | 4,937.98       | 26.47           | 43.57  | 104.89            | 251.74                 | 5,590.64        | 6,212.10         | 6,145.60           | 66.50             | 93.415  |                                                              |         |                            |  |
| 7,216.87                                     | 7,121.05       | 7,522.22       | 4,937.97       | 26.53           | 43.54  | 104.87            | 253.51                 | 5,590.85        | 6,218.83         | 6,152.34           | 66.49             | 93.526  |                                                              |         |                            |  |
| 7,300.00                                     | 7,202.57       | 7,513.81       | 4,937.92       | 26.85           | 43.43  | 105.32            | 261.86                 | 5,591.81        | 6,252.33         | 6,185.87           | 66.46             | 94.080  |                                                              |         |                            |  |
| 7,400.00                                     | 7,301.06       | 7,504.73       | 4,937.88       | 27.23           | 43.31  | 105.88            | 270.88                 | 5,592.87        | 6,293.25         | 6,226.83           | 66.42             | 94.755  |                                                              |         |                            |  |
| 7,500.00                                     | 7,399.97       | 7,496.83       | 4,937.86       | 27.61           | 43.21  | 106.46            | 278.72                 | 5,593.80        | 6,334.81         | 6,268.43           | 66.38             | 95.439  |                                                              |         |                            |  |
| 7,600.00                                     | 7,499.23       | 7,477.00       | 4,937.88       | 27.98           | 42.95  | 106.93            | 298.41                 | 5,596.21        | 6,377.01         | 6,310.83           | 66.18             | 96.362  |                                                              |         |                            |  |
| 7,700.00                                     | 7,598.77       | 7,700.00       | 4,938.62       | 28.34           | 45.88  | 107.23            | 336.32                 | 5,600.87        | 6,419.64         | 6,350.65           | 68.99             | 93.047  |                                                              |         |                            |  |
| 7,800.00                                     | 7,698.53       | 7,800.00       | 4,938.78       | 28.70           | 47.20  | 107.84            | 344.66                 | 5,601.89        | 6,462.88         | 6,392.64           | 70.24             | 92.009  |                                                              |         |                            |  |
| 7,900.00                                     | 7,798.44       | 7,900.00       | 4,938.89       | 29.05           | 48.52  | 108.47            | 350.56                 | 5,602.61        | 6,506.65         | 6,435.18           | 71.47             | 91.044  |                                                              |         |                            |  |
| 8,000.00                                     | 7,898.42       | 7,362.94       | 4,940.36       | 29.39           | 41.45  | 108.57            | 411.59                 | 5,610.06        | 6,550.99         | 6,486.11           | 64.88             | 100.965 |                                                              |         |                            |  |
| 8,013.58                                     | 7,912.00       | 7,362.40       | 4,940.38       | 29.43           | 41.44  | 95.88             | 412.12                 | 5,610.13        | 6,557.04         | 6,492.16           | 64.88             | 101.069 |                                                              |         |                            |  |
| 8,100.00                                     | 7,998.42       | 7,359.18       | 4,940.48       | 29.73           | 41.40  | 95.85             | 415.32                 | 5,610.51        | 6,595.97         | 6,531.14           | 64.83             | 101.737 |                                                              |         |                            |  |
| 8,200.00                                     | 8,098.42       | 7,355.51       | 4,940.60       | 30.07           | 41.35  | 95.82             | 418.96                 | 5,610.95        | 6,642.14         | 6,577.36           | 64.78             | 102.534 |                                                              |         |                            |  |
| 8,300.00                                     | 8,198.42       | 7,351.90       | 4,940.72       | 30.41           | 41.30  | 95.78             | 422.55                 | 5,611.38        | 6,689.49         | 6,624.77           | 64.72             | 103.354 |                                                              |         |                            |  |
| 8,363.62                                     | 8,262.04       | 7,349.63       | 4,940.80       | 30.62           | 41.27  | 95.76             | 424.80                 | 5,611.64        | 6,720.21         | 6,655.52           | 64.69             | 103.888 |                                                              |         |                            |  |
| 8,400.00                                     | 8,298.40       | 7,348.19       | 4,940.84       | 30.75           | 41.25  | 5.89              | 426.23                 | 5,611.81        | 6,736.97         | 6,672.31           | 64.66             | 104.195 |                                                              |         |                            |  |
| 8,450.00                                     | 8,348.10       | 7,345.73       | 4,940.92       | 30.91           | 41.22  | 5.65              | 428.67                 | 5,612.11        | 6,756.88         | 6,692.28           | 64.60             | 104.596 |                                                              |         |                            |  |
| 8,500.00                                     | 8,397.14       | 7,342.73       | 4,941.02       | 31.07           | 41.18  | 5.46              | 431.64                 | 5,612.46        | 6,773.07         | 6,708.54           | 64.53             | 104.963 |                                                              |         |                            |  |
| 8,550.00                                     | 8,445.15       | 7,339.24       | 4,941.13       | 31.23           | 41.14  | 5.31              | 435.11                 | 5,612.87        | 6,785.43         | 6,720.99           | 64.44             | 105.295 |                                                              |         |                            |  |
| 8,600.00                                     | 8,491.77       | 7,335.28       | 4,941.26       | 31.38           | 41.08  | 5.19              | 439.04                 | 5,613.34        | 6,793.89         | 6,729.55           | 64.34             | 105.590 |                                                              |         |                            |  |
| 8,650.00                                     | 8,536.65       | 7,330.89       | 4,941.39       | 31.52           | 41.03  | 5.12              | 443.40                 | 5,613.85        | 6,798.41         | 6,734.18           | 64.23             | 105.847 |                                                              |         |                            |  |
| 8,700.00                                     | 8,579.43       | 7,326.11       | 4,941.54       | 31.66           | 40.96  | 5.07              | 448.14                 | 5,614.41        | 6,798.96         | 6,734.85           | 64.10             | 106.067 |                                                              |         |                            |  |
| 8,750.00                                     | 8,619.80       | 7,320.99       | 4,941.70       | 31.80           | 40.90  | 5.06              | 453.23                 | 5,615.01        | 6,795.52         | 6,731.56           | 63.96             | 106.247 |                                                              |         |                            |  |
| 8,800.00                                     | 8,657.44       | 7,315.56       | 4,941.86       | 31.93           | 40.83  | 5.08              | 458.61                 | 5,615.64        | 6,788.13         | 6,724.32           | 63.81             | 106.386 |                                                              |         |                            |  |
| 8,850.00                                     | 8,692.08       | 7,309.88       | 4,942.03       | 32.06           | 40.75  | 5.13              | 464.25                 | 5,616.30        | 6,776.81         | 6,713.17           | 63.64             | 106.482 |                                                              |         |                            |  |
| 8,900.00                                     | 8,723.44       | 7,303.99       | 4,942.21       | 32.19           | 40.67  | 5.22              | 470.10                 | 5,616.99        | 6,761.65         | 6,698.18           | 63.47             | 106.534 |                                                              |         |                            |  |
| 8,950.00                                     | 8,751.29       | 7,299.27       | 4,942.35       | 32.34           | 40.61  | 5.37              | 474.79                 | 5,617.53        | 6,742.73         | 6,679.43           | 63.30             | 106.517 |                                                              |         |                            |  |
| 9,000.00                                     | 8,775.42       | 7,292.34       | 4,942.54       | 32.50           | 40.52  | 5.55              | 481.67                 | 5,618.33        | 6,720.16         | 6,657.05           | 63.11             | 106.489 |                                                              |         |                            |  |
| 9,050.00                                     | 8,795.64       | 7,285.30       | 4,942.74       | 32.67           | 40.43  | 5.78              | 488.66                 | 5,619.14        | 6,694.08         | 6,631.17           | 62.91             | 106.414 |                                                              |         |                            |  |
| 9,100.00                                     | 8,811.80       | 7,278.20       | 4,942.94       | 32.87           | 40.34  | 6.08              | 495.71                 | 5,619.96        | 6,664.64         | 6,601.94           | 62.70             | 106.289 |                                                              |         |                            |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 80-GYRO-NS-CT, 4361-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,150.00                                     | 8,823.77            | 7,271.10            | 4,943.13            | 33.10           | 40.24       | 6.47                  | 502.76                            | 5,620.77   | 6,632.03             | 6,569.53              | 62.50                   | 106.113           |                    |         |
| 9,200.00                                     | 8,831.47            | 7,264.05            | 4,943.33            | 33.34           | 40.15       | 6.98                  | 509.76                            | 5,621.57   | 6,596.44             | 6,534.14              | 62.30                   | 105.885           |                    |         |
| 9,250.00                                     | 8,834.84            | 7,257.10            | 4,943.52            | 33.60           | 40.06       | 7.65                  | 516.67                            | 5,622.37   | 6,558.11             | 6,496.01              | 62.10                   | 105.604           |                    |         |
| 9,263.62                                     | 8,835.00            | 7,255.23            | 4,943.57            | 33.67           | 40.04       | 7.86                  | 518.52                            | 5,622.58   | 6,547.22             | 6,485.17              | 62.05                   | 105.513           |                    |         |
| 9,300.00                                     | 8,835.00            | 7,250.26            | 4,943.70            | 33.88           | 39.97       | 7.79                  | 523.46                            | 5,623.14   | 6,517.94             | 6,456.03              | 61.91                   | 105.288           |                    |         |
| 9,400.00                                     | 8,835.00            | 7,236.68            | 4,944.07            | 34.53           | 39.80       | 7.60                  | 536.95                            | 5,624.68   | 6,437.79             | 6,376.29              | 61.51                   | 104.666           |                    |         |
| 9,500.00                                     | 8,835.00            | 7,223.21            | 4,944.43            | 35.30           | 39.62       | 7.40                  | 550.33                            | 5,626.20   | 6,358.19             | 6,297.07              | 61.11                   | 104.037           |                    |         |
| 9,600.00                                     | 8,835.00            | 7,209.85            | 4,944.79            | 36.17           | 39.45       | 7.21                  | 563.59                            | 5,627.70   | 6,279.14             | 6,218.41              | 60.73                   | 103.399           |                    |         |
| 9,700.00                                     | 8,835.00            | 7,197.15            | 4,945.12            | 37.13           | 39.28       | 7.02                  | 576.21                            | 5,629.12   | 6,200.67             | 6,140.32              | 60.35                   | 102.743           |                    |         |
| 9,800.00                                     | 8,835.00            | 7,182.27            | 4,945.50            | 38.18           | 39.09       | 6.80                  | 590.99                            | 5,630.77   | 6,122.81             | 6,062.85              | 59.96                   | 102.117           |                    |         |
| 9,900.00                                     | 8,835.00            | 7,168.18            | 4,945.81            | 39.31           | 38.90       | 6.60                  | 604.99                            | 5,632.28   | 6,045.56             | 5,985.98              | 59.58                   | 101.468           |                    |         |
| 10,000.00                                    | 8,835.00            | 7,154.83            | 4,946.07            | 40.51           | 38.73       | 6.40                  | 618.27                            | 5,633.68   | 5,968.97             | 5,909.75              | 59.22                   | 100.798           |                    |         |
| 10,100.00                                    | 8,835.00            | 7,142.16            | 4,946.28            | 41.78           | 38.57       | 6.22                  | 630.88                            | 5,634.97   | 5,893.05             | 5,834.19              | 58.87                   | 100.106           |                    |         |
| 10,200.00                                    | 8,835.00            | 7,130.12            | 4,946.44            | 43.10           | 38.41       | 6.04                  | 642.86                            | 5,636.16   | 5,817.84             | 5,759.31              | 58.53                   | 99.393            |                    |         |
| 10,300.00                                    | 8,835.00            | 7,118.65            | 4,946.57            | 44.49           | 38.26       | 5.87                  | 654.27                            | 5,637.26   | 5,743.37             | 5,685.15              | 58.21                   | 98.659            |                    |         |
| 10,400.00                                    | 8,835.00            | 7,107.96            | 4,946.67            | 45.92           | 38.12       | 5.72                  | 664.91                            | 5,638.28   | 5,669.66             | 5,611.75              | 57.91                   | 97.900            |                    |         |
| 10,500.00                                    | 8,835.00            | 7,097.30            | 4,946.73            | 47.39           | 37.98       | 5.56                  | 675.53                            | 5,639.25   | 5,596.75             | 5,539.12              | 57.62                   | 97.127            |                    |         |
| 10,600.00                                    | 8,835.00            | 7,086.80            | 4,946.78            | 48.91           | 37.85       | 5.41                  | 685.99                            | 5,640.19   | 5,524.66             | 5,467.32              | 57.35                   | 96.337            |                    |         |
| 10,700.00                                    | 8,835.00            | 7,076.47            | 4,946.83            | 50.47           | 37.72       | 5.25                  | 696.28                            | 5,641.12   | 5,453.45             | 5,396.36              | 57.09                   | 95.531            |                    |         |
| 10,800.00                                    | 8,835.00            | 7,066.29            | 4,946.86            | 52.06           | 37.58       | 5.10                  | 706.41                            | 5,642.02   | 5,383.12             | 5,326.28              | 56.84                   | 94.707            |                    |         |
| 10,900.00                                    | 8,835.00            | 7,056.28            | 4,946.90            | 53.68           | 37.45       | 4.96                  | 716.38                            | 5,642.90   | 5,313.73             | 5,257.12              | 56.61                   | 93.865            |                    |         |
| 11,000.00                                    | 8,835.00            | 7,046.42            | 4,946.92            | 55.32           | 37.33       | 4.81                  | 726.20                            | 5,643.76   | 5,245.32             | 5,188.92              | 56.40                   | 93.004            |                    |         |
| 11,100.00                                    | 8,835.00            | 7,036.72            | 4,946.94            | 57.00           | 37.20       | 4.67                  | 735.88                            | 5,644.60   | 5,177.91             | 5,121.70              | 56.21                   | 92.124            |                    |         |
| 11,200.00                                    | 8,835.00            | 7,027.16            | 4,946.96            | 58.70           | 37.08       | 4.53                  | 745.40                            | 5,645.42   | 5,111.55             | 5,055.52              | 56.03                   | 91.225            |                    |         |
| 11,300.00                                    | 8,835.00            | 7,017.74            | 4,946.97            | 60.41           | 36.96       | 4.39                  | 754.78                            | 5,646.22   | 5,046.28             | 4,990.40              | 55.88                   | 90.306            |                    |         |
| 11,400.00                                    | 8,835.00            | 7,008.46            | 4,946.97            | 62.15           | 36.84       | 4.25                  | 764.02                            | 5,647.00   | 4,982.15             | 4,926.40              | 55.75                   | 89.368            |                    |         |
| 11,500.00                                    | 8,835.00            | 6,999.63            | 4,946.97            | 63.91           | 36.72       | 4.12                  | 772.83                            | 5,647.74   | 4,919.20             | 4,863.56              | 55.64                   | 88.405            |                    |         |
| 11,600.00                                    | 8,835.00            | 6,991.17            | 4,946.98            | 65.69           | 36.62       | 3.99                  | 781.26                            | 5,648.46   | 4,857.48             | 4,801.91              | 55.56                   | 87.420            |                    |         |
| 11,700.00                                    | 8,835.00            | 6,982.56            | 4,946.99            | 67.47           | 36.51       | 3.87                  | 789.84                            | 5,649.19   | 4,797.03             | 4,741.52              | 55.51                   | 86.421            |                    |         |
| 11,800.00                                    | 8,835.00            | 6,973.80            | 4,947.00            | 69.28           | 36.39       | 3.74                  | 798.57                            | 5,649.95   | 4,737.90             | 4,682.43              | 55.47                   | 85.408            |                    |         |
| 11,900.00                                    | 8,835.00            | 6,964.88            | 4,947.01            | 71.09           | 36.28       | 3.60                  | 807.45                            | 5,650.72   | 4,680.15             | 4,624.69              | 55.46                   | 84.384            |                    |         |
| 12,000.00                                    | 8,835.00            | 6,955.80            | 4,947.04            | 72.92           | 36.16       | 3.47                  | 816.49                            | 5,651.51   | 4,623.82             | 4,568.34              | 55.48                   | 83.348            |                    |         |
| 12,100.00                                    | 8,835.00            | 6,946.56            | 4,947.06            | 74.76           | 36.04       | 3.33                  | 825.70                            | 5,652.33   | 4,568.97             | 4,513.45              | 55.51                   | 82.302            |                    |         |
| 12,200.00                                    | 8,835.00            | 6,937.14            | 4,947.09            | 76.61           | 35.92       | 3.19                  | 835.08                            | 5,653.17   | 4,515.64             | 4,460.06              | 55.58                   | 81.247            |                    |         |
| 12,300.00                                    | 8,835.00            | 6,927.56            | 4,947.13            | 78.47           | 35.80       | 3.05                  | 844.62                            | 5,654.04   | 4,463.90             | 4,408.23              | 55.67                   | 80.186            |                    |         |
| 12,400.00                                    | 8,835.00            | 6,917.79            | 4,947.18            | 80.34           | 35.68       | 2.91                  | 854.35                            | 5,654.93   | 4,413.79             | 4,358.01              | 55.79                   | 79.120            |                    |         |
| 12,500.00                                    | 8,835.00            | 6,909.00            | 4,947.22            | 82.22           | 35.56       | 2.78                  | 863.10                            | 5,655.74   | 4,365.38             | 4,309.44              | 55.94                   | 78.036            |                    |         |
| 12,600.00                                    | 8,835.00            | 6,900.18            | 4,947.26            | 84.11           | 35.45       | 2.64                  | 871.89                            | 5,656.55   | 4,318.73             | 4,262.60              | 56.12                   | 76.950            |                    |         |
| 12,700.00                                    | 8,835.00            | 6,892.34            | 4,947.29            | 86.00           | 35.35       | 2.53                  | 879.69                            | 5,657.27   | 4,273.88             | 4,217.54              | 56.34                   | 75.852            |                    |         |
| 12,800.00                                    | 8,835.00            | 6,884.58            | 4,947.32            | 87.90           | 35.25       | 2.41                  | 887.42                            | 5,657.98   | 4,230.91             | 4,174.31              | 56.60                   | 74.757            |                    |         |
| 12,900.00                                    | 8,835.00            | 6,876.88            | 4,947.34            | 89.81           | 35.15       | 2.30                  | 895.09                            | 5,658.67   | 4,189.86             | 4,132.99              | 56.88                   | 73.667            |                    |         |
| 13,000.00                                    | 8,835.00            | 6,869.25            | 4,947.36            | 91.72           | 35.06       | 2.19                  | 902.69                            | 5,659.36   | 4,150.81             | 4,093.62              | 57.19                   | 72.584            |                    |         |
| 13,100.00                                    | 8,835.00            | 6,861.68            | 4,947.36            | 93.64           | 34.96       | 2.07                  | 910.23                            | 5,660.05   | 4,113.79             | 4,056.26              | 57.53                   | 71.511            |                    |         |
| 13,200.00                                    | 8,835.00            | 6,854.18            | 4,947.37            | 95.56           | 34.87       | 1.96                  | 917.70                            | 5,660.72   | 4,078.87             | 4,020.97              | 57.90                   | 70.451            |                    |         |
| 13,300.00                                    | 8,835.00            | 6,846.74            | 4,947.37            | 97.49           | 34.77       | 1.85                  | 925.10                            | 5,661.38   | 4,046.11             | 3,987.81              | 58.30                   | 69.405            |                    |         |
| 13,400.00                                    | 8,835.00            | 6,839.37            | 4,947.36            | 99.42           | 34.68       | 1.74                  | 932.45                            | 5,662.03   | 4,015.55             | 3,956.82              | 58.73                   | 68.376            |                    |         |
| 13,500.00                                    | 8,835.00            | 6,832.06            | 4,947.35            | 101.36          | 34.59       | 1.63                  | 939.73                            | 5,662.68   | 3,987.25             | 3,928.06              | 59.19                   | 67.366            |                    |         |
| 13,600.00                                    | 8,835.00            | 6,824.81            | 4,947.34            | 103.30          | 34.49       | 1.53                  | 946.95                            | 5,663.32   | 3,961.25             | 3,901.57              | 59.68                   | 66.378            |                    |         |
| 13,700.00                                    | 8,835.00            | 6,817.00            | 4,947.33            | 105.25          | 34.44       | 1.47                  | 950.75                            | 5,663.65   | 3,937.61             | 3,877.38              | 60.22                   | 65.386            |                    |         |
| 13,800.00                                    | 8,835.00            | 6,807.32            | 4,947.28            | 107.20          | 34.27       | 1.27                  | 964.37                            | 5,664.84   | 3,916.36             | 3,855.63              | 60.73                   | 64.492            |                    |         |
| 13,900.00                                    | 8,835.00            | 6,794.14            | 4,947.24            | 109.15          | 34.11       | 1.07                  | 977.51                            | 5,665.97   | 3,897.52             | 3,836.26              | 61.27                   | 63.616            |                    |         |
| 14,000.00                                    | 8,835.00            | 6,781.43            | 4,947.22            | 111.10          | 33.95       | 0.88                  | 990.17                            | 5,667.03   | 3,881.15             | 3,819.31              | 61.84                   | 62.760            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 80-GYRO-NS-CT, 4361-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 14,100.00                                    | 8,835.00            | 6,769.18            | 4,947.20            | 113.06          | 33.79       | 0.70                  | 1,002.38                          | 5,668.04   | 3,867.26             | 3,804.81              | 62.45                   | 61.927            |                    |         |
| 14,200.00                                    | 8,835.00            | 6,757.35            | 4,947.19            | 115.03          | 33.64       | 0.52                  | 1,014.17                          | 5,669.00   | 3,855.89             | 3,792.81              | 63.09                   | 61.120            |                    |         |
| 14,300.00                                    | 8,835.00            | 6,745.92            | 4,947.19            | 116.99          | 33.50       | 0.35                  | 1,025.57                          | 5,669.90   | 3,847.06             | 3,783.31              | 63.76                   | 60.340            |                    |         |
| 14,400.00                                    | 8,835.00            | 6,734.87            | 4,947.20            | 118.96          | 33.36       | 0.19                  | 1,036.58                          | 5,670.76   | 3,840.80             | 3,776.34              | 64.45                   | 59.589            |                    |         |
| 14,500.00                                    | 8,835.00            | 6,724.19            | 4,947.21            | 120.93          | 33.23       | 0.03                  | 1,047.23                          | 5,671.57   | 3,837.10             | 3,771.92              | 65.18                   | 58.871            |                    |         |
| 14,592.75                                    | 8,835.00            | 6,719.00            | 4,947.22            | 122.76          | 33.16       | -0.05                 | 1,052.41                          | 5,671.97   | 3,835.98             | 3,770.09              | 65.89                   | 58.215 CC         |                    |         |
| 14,600.00                                    | 8,835.00            | 6,719.00            | 4,947.22            | 122.90          | 33.16       | -0.05                 | 1,052.41                          | 5,671.97   | 3,835.99             | 3,770.04              | 65.95                   | 58.164 ES         |                    |         |
| 14,700.00                                    | 8,835.00            | 6,719.00            | 4,947.22            | 124.88          | 33.16       | -0.05                 | 1,052.41                          | 5,671.97   | 3,837.48             | 3,770.71              | 66.77                   | 57.475            |                    |         |
| 14,800.00                                    | 8,835.00            | 6,706.31            | 4,947.23            | 126.86          | 33.00       | -0.24                 | 1,065.07                          | 5,672.88   | 3,841.54             | 3,774.00              | 67.54                   | 56.878            |                    |         |
| 14,900.00                                    | 8,835.00            | 6,701.73            | 4,947.23            | 128.84          | 32.95       | -0.31                 | 1,069.63                          | 5,673.19   | 3,848.20             | 3,779.84              | 68.36                   | 56.291            |                    |         |
| 15,000.00                                    | 8,835.00            | 6,697.41            | 4,947.23            | 130.82          | 32.89       | -0.37                 | 1,073.94                          | 5,673.48   | 3,857.44             | 3,788.24              | 69.20                   | 55.746            |                    |         |
| 15,100.00                                    | 8,835.00            | 6,693.32            | 4,947.22            | 132.80          | 32.84       | -0.43                 | 1,078.02                          | 5,673.74   | 3,869.23             | 3,799.19              | 70.04                   | 55.245            |                    |         |
| 15,200.00                                    | 8,835.00            | 6,689.44            | 4,947.21            | 134.79          | 32.79       | -0.49                 | 1,081.90                          | 5,673.98   | 3,883.55             | 3,812.67              | 70.88                   | 54.789            |                    |         |
| 15,300.00                                    | 8,835.00            | 6,685.76            | 4,947.21            | 136.78          | 32.75       | -0.54                 | 1,085.57                          | 5,674.20   | 3,900.38             | 3,828.65              | 71.73                   | 54.379            |                    |         |
| 15,400.00                                    | 8,835.00            | 6,682.26            | 4,947.20            | 138.76          | 32.70       | -0.60                 | 1,089.06                          | 5,674.41   | 3,919.68             | 3,847.11              | 72.57                   | 54.015            |                    |         |
| 15,500.00                                    | 8,835.00            | 6,678.93            | 4,947.19            | 140.76          | 32.66       | -0.65                 | 1,092.39                          | 5,674.60   | 3,941.42             | 3,868.02              | 73.40                   | 53.697            |                    |         |
| 15,600.00                                    | 8,835.00            | 6,675.76            | 4,947.17            | 142.75          | 32.62       | -0.69                 | 1,095.56                          | 5,674.77   | 3,965.55             | 3,891.33              | 74.22                   | 53.426            |                    |         |
| 15,700.00                                    | 8,835.00            | 6,672.73            | 4,947.16            | 144.74          | 32.58       | -0.74                 | 1,098.58                          | 5,674.94   | 3,992.05             | 3,917.01              | 75.04                   | 53.202            |                    |         |
| 15,800.00                                    | 8,835.00            | 6,669.84            | 4,947.15            | 146.74          | 32.55       | -0.78                 | 1,101.47                          | 5,675.09   | 4,020.85             | 3,945.02              | 75.83                   | 53.024            |                    |         |
| 15,900.00                                    | 8,835.00            | 6,667.07            | 4,947.14            | 148.73          | 32.51       | -0.82                 | 1,104.23                          | 5,675.23   | 4,051.91             | 3,975.30              | 76.61                   | 52.892            |                    |         |
| 16,000.00                                    | 8,835.00            | 6,664.43            | 4,947.12            | 150.73          | 32.48       | -0.86                 | 1,106.87                          | 5,675.37   | 4,085.18             | 4,007.82              | 77.36                   | 52.805            |                    |         |
| 16,100.00                                    | 8,835.00            | 6,661.90            | 4,947.11            | 152.73          | 32.45       | -0.90                 | 1,109.40                          | 5,675.49   | 4,120.61             | 4,042.51              | 78.10                   | 52.762 SF         |                    |         |
| 16,200.00                                    | 8,835.00            | 6,659.47            | 4,947.09            | 154.73          | 32.42       | -0.94                 | 1,111.82                          | 5,675.61   | 4,158.13             | 4,079.32              | 78.81                   | 52.762            |                    |         |
| 16,300.00                                    | 8,835.00            | 6,657.14            | 4,947.08            | 156.73          | 32.39       | -0.97                 | 1,114.15                          | 5,675.72   | 4,197.70             | 4,118.20              | 79.50                   | 52.804            |                    |         |
| 16,400.00                                    | 8,835.00            | 6,654.90            | 4,947.06            | 158.74          | 32.36       | -1.00                 | 1,116.39                          | 5,675.82   | 4,239.26             | 4,159.10              | 80.16                   | 52.887            |                    |         |
| 16,500.00                                    | 8,835.00            | 6,652.75            | 4,947.05            | 160.74          | 32.33       | -1.04                 | 1,118.54                          | 5,675.92   | 4,282.74             | 4,201.95              | 80.79                   | 53.010            |                    |         |
| 16,600.00                                    | 8,835.00            | 6,650.68            | 4,947.04            | 162.74          | 32.31       | -1.07                 | 1,120.60                          | 5,676.01   | 4,328.10             | 4,246.70              | 81.40                   | 53.171            |                    |         |
| 16,700.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 164.75          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,375.43             | 4,293.56              | 81.88                   | 53.439            |                    |         |
| 16,800.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 166.76          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,424.34             | 4,341.90              | 82.44                   | 53.668            |                    |         |
| 16,900.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 168.77          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,474.94             | 4,391.97              | 82.97                   | 53.932            |                    |         |
| 17,000.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 170.77          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,527.19             | 4,443.70              | 83.48                   | 54.229            |                    |         |
| 17,100.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 172.78          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,581.02             | 4,497.05              | 83.97                   | 54.557            |                    |         |
| 17,200.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 174.79          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,636.39             | 4,551.96              | 84.43                   | 54.916            |                    |         |
| 17,300.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 176.81          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,693.23             | 4,608.37              | 84.86                   | 55.305            |                    |         |
| 17,400.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 178.82          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,751.50             | 4,666.23              | 85.27                   | 55.721            |                    |         |
| 17,500.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 180.83          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,811.14             | 4,725.48              | 85.66                   | 56.164            |                    |         |
| 17,600.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 182.84          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,872.11             | 4,786.08              | 86.03                   | 56.632            |                    |         |
| 17,700.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 184.86          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,934.35             | 4,847.97              | 86.38                   | 57.126            |                    |         |
| 17,800.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 186.87          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,997.81             | 4,911.11              | 86.70                   | 57.642            |                    |         |
| 17,900.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 188.89          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 5,062.46             | 4,975.44              | 87.01                   | 58.181            |                    |         |
| 18,000.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 190.91          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 5,128.24             | 5,040.93              | 87.30                   | 58.741            |                    |         |
| 18,100.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 192.92          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 5,195.11             | 5,107.53              | 87.58                   | 59.321            |                    |         |
| 18,200.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 194.94          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 5,263.03             | 5,175.20              | 87.83                   | 59.921            |                    |         |
| 18,300.00                                    | 8,835.00            | 6,624.05            | 4,946.80            | 196.96          | 31.98       | -1.46                 | 1,147.22                          | 5,677.00   | 5,331.96             | 5,243.89              | 88.07                   | 60.544            |                    |         |
| 18,400.00                                    | 8,835.00            | 6,620.97            | 4,946.77            | 198.98          | 31.94       | -1.51                 | 1,150.29                          | 5,677.09   | 5,401.86             | 5,313.59              | 88.28                   | 61.192            |                    |         |
| 18,500.00                                    | 8,835.00            | 6,617.92            | 4,946.74            | 201.00          | 31.90       | -1.55                 | 1,153.34                          | 5,677.19   | 5,472.70             | 5,384.23              | 88.47                   | 61.858            |                    |         |
| 18,600.00                                    | 8,835.00            | 6,614.89            | 4,946.70            | 203.02          | 31.86       | -1.60                 | 1,156.36                          | 5,677.28   | 5,544.43             | 5,455.78              | 88.65                   | 62.540            |                    |         |
| 18,700.00                                    | 8,835.00            | 6,611.90            | 4,946.67            | 205.04          | 31.83       | -1.64                 | 1,159.36                          | 5,677.37   | 5,617.02             | 5,528.20              | 88.82                   | 63.239            |                    |         |
| 18,800.00                                    | 8,835.00            | 6,608.93            | 4,946.64            | 207.06          | 31.79       | -1.69                 | 1,162.33                          | 5,677.46   | 5,690.45             | 5,601.47              | 88.98                   | 63.952            |                    |         |
| 18,900.00                                    | 8,835.00            | 6,247.00            | 4,947.05            | 209.08          | 27.44       | -7.04                 | 1,523.35                          | 5,699.85   | 5,764.52             | 5,676.29              | 88.23                   | 65.334            |                    |         |
| 19,000.00                                    | 8,835.00            | 6,247.00            | 4,947.05            | 211.10          | 27.44       | -7.04                 | 1,523.35                          | 5,699.85   | 5,839.09             | 5,750.74              | 88.35                   | 66.089            |                    |         |
| 19,100.00                                    | 8,835.00            | 6,247.00            | 4,947.05            | 213.12          | 27.44       | -7.04                 | 1,523.35                          | 5,699.85   | 5,914.42             | 5,825.95              | 88.46                   | 66.857            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw State Com 2H - ST01 - ST01 |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Site Error:</b> | 5.00 ft |
|-----------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|-----------------------------------------|---------------|-------------------------|--------------------------|----------------------------|---------------------------|---------|
| Survey Program: 80-GYRO-NS-CT, 4361-MWD+HDGM                                      |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                         |                        | Offset                 |                        | Semi Major Axis   |                |                          | Distance                                |               |                         |                          |                            |                           | Warning |
| Measured Depth<br>(ft)                                                            | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between Centres<br>(ft) | Between Ellipses<br>(ft) | Minimum Separation<br>(ft) | Separation Factor         |         |
| 19,200.00                                                                         | 8,835.00               | 6,247.00               | 4,947.05               | 215.15            | 27.44          | -7.04                    | 1,523.35                                | 5,699.85      | 5,990.46                | 5,901.89                 | 88.57                      | 67.638                    |         |
| 19,308.27                                                                         | 8,835.00               | 6,247.00               | 4,947.05               | 217.34            | 27.44          | -7.04                    | 1,523.35                                | 5,699.85      | 6,073.58                | 5,984.91                 | 88.67                      | 68.497                    |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 80-GYRO-NS-CT |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                          | 0.00                | 0.00                | 0.00                | 0.50            | 5.02        | 61.82                 | 3,098.47                          | 5,783.09   | 6,561.05             |                       |                         |                   |                    |         |
| 100.00                        | 100.00              | 44.15               | 44.15               | 0.52            | 5.03        | 61.82                 | 3,098.46                          | 5,783.11   | 6,560.86             | 6,555.31              | 5.54                    | 1,183.637         |                    |         |
| 200.00                        | 200.00              | 139.73              | 139.73              | 0.70            | 5.03        | 61.82                 | 3,098.39                          | 5,783.26   | 6,560.96             | 6,555.23              | 5.74                    | 1,143.782         |                    |         |
| 300.00                        | 300.00              | 235.12              | 235.12              | 0.99            | 5.07        | 61.82                 | 3,098.28                          | 5,783.49   | 6,561.12             | 6,555.07              | 6.05                    | 1,084.034         |                    |         |
| 400.00                        | 400.00              | 332.24              | 332.24              | 1.31            | 5.12        | 61.82                 | 3,098.14                          | 5,783.82   | 6,561.35             | 6,554.92              | 6.43                    | 1,020.730         |                    |         |
| 500.00                        | 500.00              | 425.78              | 425.77              | 1.65            | 5.19        | 61.83                 | 3,097.94                          | 5,784.22   | 6,561.63             | 6,554.79              | 6.84                    | 959.655           |                    |         |
| 600.00                        | 600.00              | 519.62              | 519.61              | 1.99            | 5.28        | 61.83                 | 3,097.68                          | 5,784.79   | 6,562.03             | 6,554.75              | 7.27                    | 902.111           |                    |         |
| 700.00                        | 700.00              | 610.56              | 610.55              | 2.34            | 5.39        | 61.84                 | 3,097.30                          | 5,785.50   | 6,562.52             | 6,554.79              | 7.73                    | 849.000           |                    |         |
| 800.00                        | 800.00              | 709.60              | 709.59              | 2.69            | 5.53        | 61.85                 | 3,096.77                          | 5,786.47   | 6,563.13             | 6,554.92              | 8.22                    | 798.807           |                    |         |
| 900.00                        | 900.00              | 805.23              | 805.20              | 3.04            | 5.68        | 61.86                 | 3,095.91                          | 5,787.58   | 6,563.73             | 6,555.01              | 8.72                    | 752.979           |                    |         |
| 1,000.00                      | 1,000.00            | 893.68              | 893.64              | 3.40            | 5.83        | 61.87                 | 3,094.99                          | 5,788.81   | 6,564.47             | 6,555.24              | 9.22                    | 711.818           |                    |         |
| 1,100.00                      | 1,100.00            | 984.35              | 984.29              | 3.75            | 5.99        | 61.88                 | 3,093.88                          | 5,790.34   | 6,565.38             | 6,555.64              | 9.75                    | 673.708           |                    |         |
| 1,200.00                      | 1,200.00            | 1,087.89            | 1,087.80            | 4.11            | 6.20        | 61.90                 | 3,092.43                          | 5,792.27   | 6,566.36             | 6,556.05              | 10.31                   | 637.046           |                    |         |
| 1,300.00                      | 1,300.00            | 1,199.53            | 1,199.40            | 4.46            | 6.44        | 61.93                 | 3,090.37                          | 5,794.42   | 6,567.19             | 6,556.29              | 10.90                   | 602.295           |                    |         |
| 1,400.00                      | 1,400.00            | 1,308.67            | 1,308.48            | 4.82            | 6.69        | 61.96                 | 3,087.61                          | 5,796.72   | 6,567.86             | 6,556.35              | 11.51                   | 570.577           |                    |         |
| 1,500.00                      | 1,500.00            | 1,414.21            | 1,413.95            | 5.18            | 6.95        | 61.99                 | 3,084.42                          | 5,799.09   | 6,568.43             | 6,556.30              | 12.12                   | 541.768           |                    |         |
| 1,600.00                      | 1,600.00            | 1,519.98            | 1,519.65            | 5.53            | 7.21        | 62.02                 | 3,081.38                          | 5,801.27   | 6,568.90             | 6,556.15              | 12.75                   | 515.292           |                    |         |
| 1,700.00                      | 1,700.00            | 1,611.49            | 1,611.12            | 5.89            | 7.45        | 62.05                 | 3,079.21                          | 5,802.88   | 6,569.35             | 6,556.01              | 13.34                   | 492.371           |                    |         |
| 1,800.00                      | 1,800.00            | 1,686.42            | 1,686.03            | 6.25            | 7.65        | 62.06                 | 3,077.80                          | 5,804.33   | 6,570.15             | 6,556.26              | 13.90                   | 472.757           |                    |         |
| 1,900.00                      | 1,900.00            | 1,773.84            | 1,773.42            | 6.61            | 7.89        | 62.08                 | 3,076.50                          | 5,806.11   | 6,571.26             | 6,556.77              | 14.49                   | 453.497           |                    |         |
| 2,000.00                      | 2,000.00            | 1,894.86            | 1,894.42            | 6.96            | 8.22        | 62.10                 | 3,075.26                          | 5,808.10   | 6,572.22             | 6,557.04              | 15.18                   | 432.955           |                    |         |
| 2,100.00                      | 2,099.99            | 1,998.46            | 1,998.01            | 7.32            | 8.51        | 74.89                 | 3,074.49                          | 5,809.44   | 6,572.79             | 6,556.96              | 15.83                   | 415.297           |                    |         |
| 2,200.00                      | 2,199.96            | 2,097.78            | 2,097.31            | 7.68            | 8.79        | 74.92                 | 3,073.83                          | 5,810.61   | 6,572.85             | 6,556.38              | 16.47                   | 399.179           |                    |         |
| 2,300.00                      | 2,299.86            | 2,189.16            | 2,188.68            | 8.04            | 9.06        | 74.97                 | 3,073.03                          | 5,811.92   | 6,572.56             | 6,555.47              | 17.09                   | 384.660           |                    |         |
| 2,400.00                      | 2,399.68            | 2,284.53            | 2,284.04            | 8.39            | 9.34        | 75.04                 | 3,072.15                          | 5,813.40   | 6,571.92             | 6,554.20              | 17.72                   | 370.814           |                    |         |
| 2,500.00                      | 2,499.37            | 2,383.62            | 2,383.11            | 8.75            | 9.63        | 75.13                 | 3,071.25                          | 5,814.96   | 6,570.88             | 6,552.51              | 18.37                   | 357.622           |                    |         |
| 2,600.00                      | 2,598.90            | 2,485.88            | 2,485.36            | 9.11            | 9.94        | 75.24                 | 3,070.48                          | 5,816.48   | 6,569.39             | 6,550.36              | 19.04                   | 345.078           |                    |         |
| 2,700.00                      | 2,698.26            | 2,590.33            | 2,589.79            | 9.46            | 10.26       | 75.37                 | 3,069.83                          | 5,817.88   | 6,567.41             | 6,547.70              | 19.71                   | 333.186           |                    |         |
| 2,800.00                      | 2,797.40            | 2,692.55            | 2,692.00            | 9.82            | 10.57       | 75.51                 | 3,069.12                          | 5,819.21   | 6,564.94             | 6,544.56              | 20.38                   | 322.108           |                    |         |
| 2,900.00                      | 2,896.30            | 2,791.44            | 2,790.88            | 10.18           | 10.88       | 75.68                 | 3,068.42                          | 5,820.48   | 6,562.05             | 6,541.00              | 21.04                   | 311.814           |                    |         |
| 3,000.00                      | 2,994.93            | 2,884.08            | 2,883.51            | 10.54           | 11.17       | 75.85                 | 3,067.65                          | 5,821.76   | 6,558.80             | 6,537.11              | 21.69                   | 302.354           |                    |         |
| 3,100.00                      | 3,093.26            | 2,981.90            | 2,981.32            | 10.90           | 11.47       | 76.05                 | 3,066.81                          | 5,823.21   | 6,555.25             | 6,532.89              | 22.36                   | 293.170           |                    |         |
| 3,195.07                      | 3,186.42            | 3,074.03            | 3,073.43            | 11.24           | 11.76       | 76.25                 | 3,066.19                          | 5,824.47   | 6,551.52             | 6,528.53              | 22.99                   | 284.915           |                    |         |
| 3,200.00                      | 3,191.25            | 3,078.71            | 3,078.11            | 11.26           | 11.78       | 76.26                 | 3,066.16                          | 5,824.53   | 6,551.32             | 6,528.29              | 23.03                   | 284.502           |                    |         |
| 3,300.00                      | 3,289.08            | 3,163.90            | 3,163.30            | 11.62           | 12.05       | 76.42                 | 3,065.70                          | 5,825.73   | 6,547.36             | 6,523.70              | 23.66                   | 276.713           |                    |         |
| 3,400.00                      | 3,386.91            | 3,243.19            | 3,242.57            | 11.98           | 12.30       | 76.56                 | 3,065.38                          | 5,827.00   | 6,543.71             | 6,519.43              | 24.28                   | 269.520           |                    |         |
| 3,500.00                      | 3,484.74            | 3,327.36            | 3,326.73            | 12.35           | 12.57       | 76.72                 | 3,065.21                          | 5,828.55   | 6,540.41             | 6,515.49              | 24.92                   | 262.505           |                    |         |
| 3,600.00                      | 3,582.58            | 3,436.53            | 3,435.89            | 12.72           | 12.92       | 76.92                 | 3,065.29                          | 5,830.45   | 6,537.22             | 6,511.58              | 25.63                   | 255.014           |                    |         |
| 3,700.00                      | 3,680.41            | 3,546.59            | 3,545.93            | 13.09           | 13.28       | 77.12                 | 3,065.61                          | 5,831.89   | 6,533.80             | 6,507.44              | 26.36                   | 247.874           |                    |         |
| 3,800.00                      | 3,778.24            | 3,647.98            | 3,647.32            | 13.46           | 13.60       | 77.30                 | 3,066.06                          | 5,833.07   | 6,530.39             | 6,503.33              | 27.06                   | 241.343           |                    |         |
| 3,900.00                      | 3,876.08            | 3,742.55            | 3,741.88            | 13.83           | 13.91       | 77.46                 | 3,066.75                          | 5,834.03   | 6,527.02             | 6,499.28              | 27.74                   | 235.311           |                    |         |
| 4,000.00                      | 3,973.91            | 3,841.61            | 3,840.93            | 14.21           | 14.23       | 77.63                 | 3,067.74                          | 5,834.94   | 6,523.75             | 6,495.31              | 28.43                   | 229.436           |                    |         |
| 4,100.00                      | 4,071.74            | 3,941.81            | 3,941.12            | 14.58           | 14.56       | 77.81                 | 3,068.79                          | 5,835.81   | 6,520.50             | 6,491.36              | 29.14                   | 223.796           |                    |         |
| 4,200.00                      | 4,169.57            | 4,061.03            | 4,060.34            | 14.96           | 14.95       | 78.01                 | 3,069.89                          | 5,836.69   | 6,517.16             | 6,487.25              | 29.90                   | 217.949           |                    |         |
| 4,300.00                      | 4,267.41            | 4,159.66            | 4,158.96            | 15.33           | 15.27       | 78.18                 | 3,070.74                          | 5,837.28   | 6,513.72             | 6,483.11              | 30.60                   | 212.844           |                    |         |
| 4,400.00                      | 4,365.24            | 4,265.95            | 4,265.24            | 15.71           | 15.62       | 78.37                 | 3,071.62                          | 5,837.80   | 6,510.23             | 6,478.90              | 31.33                   | 207.788           |                    |         |
| 4,500.00                      | 4,463.07            | 4,366.55            | 4,365.83            | 16.09           | 15.95       | 78.54                 | 3,072.45                          | 5,838.22   | 6,506.73             | 6,474.69              | 32.04                   | 203.070           |                    |         |
| 4,600.00                      | 4,560.90            | 4,465.25            | 4,464.53            | 16.47           | 16.28       | 78.72                 | 3,073.22                          | 5,838.61   | 6,503.26             | 6,470.51              | 32.75                   | 198.585           |                    |         |
| 4,700.00                      | 4,658.74            | 4,563.70            | 4,562.98            | 16.85           | 16.61       | 78.89                 | 3,073.99                          | 5,839.01   | 6,499.86             | 6,466.41              | 33.45                   | 194.288           |                    |         |
| 4,800.00                      | 4,756.57            | 4,668.31            | 4,667.59            | 17.23           | 16.96       | 79.07                 | 3,074.79                          | 5,839.38   | 6,496.46             | 6,462.28              | 34.18                   | 190.049           |                    |         |
| 4,900.00                      | 4,854.40            | 4,775.90            | 4,775.17            | 17.61           | 17.32       | 79.26                 | 3,075.59                          | 5,839.62   | 6,493.00             | 6,458.07              | 34.92                   | 185.926           |                    |         |
| 5,000.00                      | 4,952.23            | 4,875.74            | 4,875.01            | 17.99           | 17.65       | 79.43                 | 3,076.39                          | 5,839.69   | 6,489.49             | 6,453.85              | 35.64                   | 182.098           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 80-GYRO-NS-CT |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                      | 5,050.07            | 4,962.68            | 4,961.94            | 18.37           | 17.94       | 79.58                 | 3,077.25                          | 5,839.75   | 6,486.10             | 6,449.79              | 36.31                   | 178.626           |                    |         |
| 5,200.00                      | 5,147.90            | 5,037.44            | 5,036.70            | 18.75           | 18.19       | 79.71                 | 3,078.21                          | 5,839.91   | 6,483.03             | 6,446.08              | 36.95                   | 175.478           |                    |         |
| 5,300.00                      | 5,245.73            | 5,110.26            | 5,109.51            | 19.14           | 18.44       | 79.83                 | 3,079.38                          | 5,840.31   | 6,480.42             | 6,442.85              | 37.57                   | 172.475           |                    |         |
| 5,400.00                      | 5,343.56            | 5,192.98            | 5,192.21            | 19.52           | 18.71       | 79.97                 | 3,080.88                          | 5,840.95   | 6,478.17             | 6,439.93              | 38.23                   | 169.431           |                    |         |
| 5,500.00                      | 5,441.40            | 5,280.82            | 5,280.03            | 19.90           | 19.01       | 80.12                 | 3,082.63                          | 5,841.77   | 6,476.17             | 6,437.25              | 38.91                   | 166.419           |                    |         |
| 5,600.00                      | 5,539.23            | 5,403.78            | 5,402.96            | 20.29           | 19.43       | 80.32                 | 3,085.03                          | 5,842.70   | 6,474.05             | 6,434.33              | 39.71                   | 163.015           |                    |         |
| 5,700.00                      | 5,637.06            | 5,501.95            | 5,501.12            | 20.67           | 19.76       | 80.49                 | 3,086.99                          | 5,843.27   | 6,471.85             | 6,431.42              | 40.43                   | 160.071           |                    |         |
| 5,800.00                      | 5,734.90            | 5,614.04            | 5,613.18            | 21.05           | 20.14       | 80.68                 | 3,089.09                          | 5,843.93   | 6,469.68             | 6,428.48              | 41.20                   | 157.048           |                    |         |
| 5,900.00                      | 5,832.73            | 5,719.47            | 5,718.61            | 21.44           | 20.49       | 80.86                 | 3,090.36                          | 5,844.50   | 6,467.25             | 6,425.32              | 41.94                   | 154.211           |                    |         |
| 6,000.00                      | 5,930.56            | 5,848.39            | 5,847.52            | 21.83           | 20.93       | 81.09                 | 3,090.67                          | 5,845.48   | 6,464.77             | 6,422.01              | 42.76                   | 151.191           |                    |         |
| 6,100.00                      | 6,028.39            | 5,987.96            | 5,987.07            | 22.21           | 21.41       | 81.36                 | 3,089.44                          | 5,846.27   | 6,461.75             | 6,418.14              | 43.62                   | 148.153           |                    |         |
| 6,200.00                      | 6,126.23            | 6,136.45            | 6,135.55            | 22.60           | 21.91       | 81.65                 | 3,087.36                          | 5,846.18   | 6,458.04             | 6,413.54              | 44.50                   | 145.128           |                    |         |
| 6,300.00                      | 6,224.06            | 6,380.76            | 6,379.80            | 22.98           | 22.73       | 82.10                 | 3,085.00                          | 5,841.95   | 6,453.21             | 6,407.53              | 45.68                   | 141.270           |                    |         |
| 6,400.00                      | 6,321.89            | 6,476.41            | 6,475.40            | 23.37           | 23.06       | 82.27                 | 3,083.51                          | 5,839.09   | 6,446.93             | 6,400.54              | 46.39                   | 138.974           |                    |         |
| 6,500.00                      | 6,419.72            | 6,573.59            | 6,572.53            | 23.76           | 23.38       | 82.46                 | 3,081.42                          | 5,836.66   | 6,440.94             | 6,393.83              | 47.10                   | 136.737           |                    |         |
| 6,600.00                      | 6,517.56            | 6,647.22            | 6,646.12            | 24.14           | 23.63       | 82.61                 | 3,079.63                          | 5,834.91   | 6,435.07             | 6,387.32              | 47.75                   | 134.776           |                    |         |
| 6,700.00                      | 6,615.39            | 6,713.27            | 6,712.13            | 24.53           | 23.86       | 82.73                 | 3,078.28                          | 5,833.64   | 6,429.78             | 6,381.42              | 48.36                   | 132.944           |                    |         |
| 6,800.00                      | 6,713.22            | 6,808.81            | 6,807.65            | 24.92           | 24.18       | 82.92                 | 3,076.65                          | 5,832.02   | 6,424.90             | 6,375.82              | 49.08                   | 130.917           |                    |         |
| 6,900.00                      | 6,811.05            | 6,953.77            | 6,952.55            | 25.30           | 24.67       | 83.19                 | 3,074.20                          | 5,828.52   | 6,419.35             | 6,369.40              | 49.94                   | 128.531           |                    |         |
| 7,000.00                      | 6,908.89            | 6,978.42            | 6,977.18            | 25.69           | 24.76       | 83.24                 | 3,073.82                          | 5,827.87   | 6,414.21             | 6,363.78              | 50.43                   | 127.186           |                    |         |
| 7,100.00                      | 7,006.72            | 6,978.42            | 6,977.18            | 26.08           | 24.76       | 83.24                 | 3,073.82                          | 5,827.87   | 6,410.59             | 6,359.76              | 50.83                   | 126.110           |                    |         |
| 7,200.00                      | 7,104.55            | 6,978.42            | 6,977.18            | 26.47           | 24.76       | 83.24                 | 3,073.82                          | 5,827.87   | 6,408.52             | 6,357.30              | 51.23                   | 125.104           |                    |         |
| 7,216.87                      | 7,121.05            | 6,978.42            | 6,977.18            | 26.53           | 24.76       | 83.24                 | 3,073.82                          | 5,827.87   | 6,408.33             | 6,357.04              | 51.29                   | 124.941           |                    |         |
| 7,271.60                      | 7,174.68            | 6,978.42            | 6,977.18            | 26.74           | 24.76       | 83.24                 | 3,073.82                          | 5,827.87   | 6,408.05             | 6,356.55              | 51.50                   | 124.429           |                    |         |
| 7,300.00                      | 7,202.57            | 6,978.42            | 6,977.18            | 26.85           | 24.76       | 83.24                 | 3,073.82                          | 5,827.87   | 6,408.12             | 6,356.52              | 51.61                   | 124.173           |                    |         |
| 7,400.00                      | 7,301.06            | 6,978.42            | 6,977.18            | 27.23           | 24.76       | 83.26                 | 3,073.82                          | 5,827.87   | 6,409.59             | 6,357.62              | 51.97                   | 123.328           |                    |         |
| 7,500.00                      | 7,399.97            | 6,978.42            | 6,977.18            | 27.61           | 24.76       | 83.31                 | 3,073.82                          | 5,827.87   | 6,412.92             | 6,360.60              | 52.32                   | 122.568           |                    |         |
| 7,600.00                      | 7,499.23            | 6,978.42            | 6,977.18            | 27.98           | 24.76       | 83.39                 | 3,073.82                          | 5,827.87   | 6,418.11             | 6,365.46              | 52.65                   | 121.892           |                    |         |
| 7,700.00                      | 7,598.77            | 6,978.42            | 6,977.18            | 28.34           | 24.76       | 83.49                 | 3,073.82                          | 5,827.87   | 6,425.16             | 6,372.19              | 52.97                   | 121.298           |                    |         |
| 7,800.00                      | 7,698.53            | 6,978.42            | 6,977.18            | 28.70           | 24.76       | 83.62                 | 3,073.82                          | 5,827.87   | 6,434.05             | 6,380.78              | 53.27                   | 120.785           |                    |         |
| 7,900.00                      | 7,798.44            | 6,978.42            | 6,977.18            | 29.05           | 24.76       | 83.78                 | 3,073.82                          | 5,827.87   | 6,444.76             | 6,391.21              | 53.55                   | 120.349           |                    |         |
| 8,000.00                      | 7,898.42            | 6,978.42            | 6,977.18            | 29.39           | 24.76       | 83.97                 | 3,073.82                          | 5,827.87   | 6,457.29             | 6,403.47              | 53.82                   | 119.990           |                    |         |
| 8,013.58                      | 7,912.00            | 6,978.42            | 6,977.18            | 29.43           | 24.76       | 71.22                 | 3,073.82                          | 5,827.87   | 6,459.13             | 6,405.28              | 53.85                   | 119.946           |                    |         |
| 8,100.00                      | 7,998.42            | 6,978.42            | 6,977.18            | 29.73           | 24.76       | 71.22                 | 3,073.82                          | 5,827.87   | 6,471.51             | 6,417.44              | 54.07                   | 119.696           |                    |         |
| 8,200.00                      | 8,098.42            | 6,978.42            | 6,977.18            | 30.07           | 24.76       | 71.22                 | 3,073.82                          | 5,827.87   | 6,487.24             | 6,432.94              | 54.31                   | 119.454           |                    |         |
| 8,300.00                      | 8,198.42            | 6,978.42            | 6,977.18            | 30.41           | 24.76       | 71.22                 | 3,073.82                          | 5,827.87   | 6,504.48             | 6,449.94              | 54.54                   | 119.264           |                    |         |
| 8,363.62                      | 8,262.04            | 6,978.42            | 6,977.18            | 30.62           | 24.76       | 71.22                 | 3,073.82                          | 5,827.87   | 6,516.21             | 6,461.53              | 54.68                   | 119.168           |                    |         |
| 8,400.00                      | 8,298.40            | 6,978.42            | 6,977.18            | 30.75           | 24.76       | -18.25                | 3,073.82                          | 5,827.87   | 6,522.12             | 6,467.36              | 54.76                   | 119.110           |                    |         |
| 8,450.00                      | 8,348.10            | 6,978.42            | 6,977.18            | 30.91           | 24.76       | -18.10                | 3,073.82                          | 5,827.87   | 6,527.01             | 6,472.15              | 54.86                   | 118.986           |                    |         |
| 8,500.00                      | 8,397.14            | 6,978.42            | 6,977.18            | 31.07           | 24.76       | -18.06                | 3,073.82                          | 5,827.87   | 6,528.14             | 6,473.19              | 54.95                   | 118.801           |                    |         |
| 8,550.00                      | 8,445.15            | 6,978.42            | 6,977.18            | 31.23           | 24.76       | -18.14                | 3,073.82                          | 5,827.87   | 6,525.51             | 6,470.47              | 55.04                   | 118.557           |                    |         |
| 8,600.00                      | 8,491.77            | 6,978.42            | 6,977.18            | 31.38           | 24.76       | -18.34                | 3,073.82                          | 5,827.87   | 6,519.13             | 6,464.01              | 55.13                   | 118.259           |                    |         |
| 8,650.00                      | 8,536.65            | 6,978.42            | 6,977.18            | 31.52           | 24.76       | -18.67                | 3,073.82                          | 5,827.87   | 6,509.04             | 6,453.84              | 55.20                   | 117.907           |                    |         |
| 8,700.00                      | 8,579.43            | 6,978.42            | 6,977.18            | 31.66           | 24.76       | -19.13                | 3,073.82                          | 5,827.87   | 6,495.30             | 6,440.03              | 55.28                   | 117.506           |                    |         |
| 8,750.00                      | 8,619.80            | 6,978.42            | 6,977.18            | 31.80           | 24.76       | -19.75                | 3,073.82                          | 5,827.87   | 6,478.00             | 6,422.66              | 55.34                   | 117.056           |                    |         |
| 8,800.00                      | 8,657.44            | 6,978.42            | 6,977.18            | 31.93           | 24.76       | -20.54                | 3,073.82                          | 5,827.87   | 6,457.23             | 6,401.83              | 55.40                   | 116.560           |                    |         |
| 8,850.00                      | 8,692.08            | 6,978.42            | 6,977.18            | 32.06           | 24.76       | -21.52                | 3,073.82                          | 5,827.87   | 6,433.11             | 6,377.67              | 55.45                   | 116.021           |                    |         |
| 8,900.00                      | 8,723.44            | 6,978.42            | 6,977.18            | 32.19           | 24.76       | -22.75                | 3,073.82                          | 5,827.87   | 6,405.81             | 6,350.32              | 55.49                   | 115.439           |                    |         |
| 8,950.00                      | 8,751.29            | 6,978.42            | 6,977.18            | 32.34           | 24.76       | -24.28                | 3,073.82                          | 5,827.87   | 6,375.48             | 6,319.95              | 55.53                   | 114.817           |                    |         |
| 9,000.00                      | 8,775.42            | 6,978.42            | 6,977.18            | 32.50           | 24.76       | -26.17                | 3,073.82                          | 5,827.87   | 6,342.32             | 6,286.76              | 55.56                   | 114.157           |                    |         |
| 9,050.00                      | 8,795.64            | 6,978.42            | 6,977.18            | 32.67           | 24.76       | -28.52                | 3,073.82                          | 5,827.87   | 6,306.53             | 6,250.94              | 55.58                   | 113.460           |                    |         |
| 9,100.00                      | 8,811.80            | 6,978.42            | 6,977.18            | 32.87           | 24.76       | -31.48                | 3,073.82                          | 5,827.87   | 6,268.34             | 6,212.74              | 55.61                   | 112.729           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 80-GYRO-NS-CT |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,150.00                      | 8,823.77            | 6,978.42            | 6,977.18            | 33.10           | 24.76       | -35.24                | 3,073.82                          | 5,827.87   | 6,228.01             | 6,172.39              | 55.62                   | 111.966           |                    |         |
| 9,200.00                      | 8,831.47            | 6,978.42            | 6,977.18            | 33.34           | 24.76       | -40.05                | 3,073.82                          | 5,827.87   | 6,185.80             | 6,130.16              | 55.64                   | 111.174           |                    |         |
| 9,250.00                      | 8,834.84            | 6,978.42            | 6,977.18            | 33.60           | 24.76       | -46.26                | 3,073.82                          | 5,827.87   | 6,142.00             | 6,086.34              | 55.66                   | 110.354           |                    |         |
| 9,263.62                      | 8,835.00            | 6,978.42            | 6,977.18            | 33.67           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 6,129.83             | 6,074.17              | 55.66                   | 110.124           |                    |         |
| 9,300.00                      | 8,835.00            | 6,978.42            | 6,977.18            | 33.88           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 6,097.23             | 6,041.55              | 55.67                   | 109.517           |                    |         |
| 9,400.00                      | 8,835.00            | 6,978.42            | 6,977.18            | 34.53           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 6,007.83             | 5,952.12              | 55.72                   | 107.829           |                    |         |
| 9,500.00                      | 8,835.00            | 6,978.42            | 6,977.18            | 35.30           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,918.78             | 5,862.99              | 55.78                   | 106.108           |                    |         |
| 9,600.00                      | 8,835.00            | 6,978.42            | 6,977.18            | 36.17           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,830.07             | 5,774.21              | 55.87                   | 104.352           |                    |         |
| 9,700.00                      | 8,835.00            | 6,978.42            | 6,977.18            | 37.13           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,741.74             | 5,685.76              | 55.98                   | 102.562           |                    |         |
| 9,800.00                      | 8,835.00            | 6,978.42            | 6,977.18            | 38.18           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,653.80             | 5,597.68              | 56.12                   | 100.737           |                    |         |
| 9,900.00                      | 8,835.00            | 6,978.42            | 6,977.18            | 39.31           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,566.27             | 5,509.97              | 56.30                   | 98.876            |                    |         |
| 10,000.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 40.51           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,479.16             | 5,422.66              | 56.50                   | 96.981            |                    |         |
| 10,100.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 41.78           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,392.50             | 5,335.77              | 56.73                   | 95.052            |                    |         |
| 10,200.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 43.10           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,306.31             | 5,249.31              | 57.00                   | 93.089            |                    |         |
| 10,300.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 44.49           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,220.61             | 5,163.30              | 57.31                   | 91.093            |                    |         |
| 10,400.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 45.92           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,135.43             | 5,077.77              | 57.66                   | 89.067            |                    |         |
| 10,500.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 47.39           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,050.79             | 4,992.75              | 58.05                   | 87.012            |                    |         |
| 10,600.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 48.91           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,966.73             | 4,908.25              | 58.48                   | 84.930            |                    |         |
| 10,700.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 50.47           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,883.26             | 4,824.30              | 58.96                   | 82.825            |                    |         |
| 10,800.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 52.06           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,800.43             | 4,740.94              | 59.49                   | 80.698            |                    |         |
| 10,900.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 53.68           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,718.26             | 4,658.19              | 60.06                   | 78.554            |                    |         |
| 11,000.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 55.32           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,636.79             | 4,576.10              | 60.69                   | 76.397            |                    |         |
| 11,100.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 57.00           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,556.06             | 4,494.68              | 61.38                   | 74.230            |                    |         |
| 11,200.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 58.70           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,476.11             | 4,413.99              | 62.12                   | 72.058            |                    |         |
| 11,300.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 60.41           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,396.98             | 4,334.06              | 62.92                   | 69.886            |                    |         |
| 11,400.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 62.15           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,318.71             | 4,254.94              | 63.78                   | 67.717            |                    |         |
| 11,500.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 63.91           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,241.36             | 4,176.66              | 64.70                   | 65.558            |                    |         |
| 11,600.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 65.69           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,164.97             | 4,099.29              | 65.68                   | 63.413            |                    |         |
| 11,700.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 67.47           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,089.60             | 4,022.87              | 66.73                   | 61.287            |                    |         |
| 11,800.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 69.28           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,015.31             | 3,947.47              | 67.84                   | 59.185            |                    |         |
| 11,900.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 71.09           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,942.15             | 3,873.13              | 69.03                   | 57.111            |                    |         |
| 12,000.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 72.92           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,870.20             | 3,799.92              | 70.28                   | 55.071            |                    |         |
| 12,100.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 74.76           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,799.51             | 3,727.92              | 71.60                   | 53.069            |                    |         |
| 12,200.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 76.61           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,730.17             | 3,657.18              | 72.98                   | 51.110            |                    |         |
| 12,300.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 78.47           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,662.24             | 3,587.80              | 74.44                   | 49.196            |                    |         |
| 12,400.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 80.34           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,595.81             | 3,519.84              | 75.97                   | 47.333            |                    |         |
| 12,500.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 82.22           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,530.97             | 3,453.40              | 77.57                   | 45.523            |                    |         |
| 12,600.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 84.11           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,467.79             | 3,388.57              | 79.23                   | 43.769            |                    |         |
| 12,700.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 86.00           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,406.39             | 3,325.43              | 80.96                   | 42.075            |                    |         |
| 12,800.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 87.90           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,346.84             | 3,264.08              | 82.75                   | 40.444            |                    |         |
| 12,900.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 89.81           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,289.25             | 3,204.64              | 84.61                   | 38.876            |                    |         |
| 13,000.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 91.72           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,233.74             | 3,147.21              | 86.52                   | 37.374            |                    |         |
| 13,100.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 93.64           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,180.39             | 3,091.90              | 88.49                   | 35.940            |                    |         |
| 13,200.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 95.56           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,129.34             | 3,038.83              | 90.51                   | 34.574            |                    |         |
| 13,300.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 97.49           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,080.69             | 2,988.11              | 92.57                   | 33.278            |                    |         |
| 13,400.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 99.42           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,034.55             | 2,939.87              | 94.67                   | 32.052            |                    |         |
| 13,500.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 101.36          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,991.04             | 2,894.24              | 96.81                   | 30.897            |                    |         |
| 13,600.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 103.30          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,950.29             | 2,851.33              | 98.96                   | 29.813            |                    |         |
| 13,700.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 105.25          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,912.40             | 2,811.27              | 101.13                  | 28.799            |                    |         |
| 13,800.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 107.20          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,877.49             | 2,774.19              | 103.30                  | 27.855            |                    |         |
| 13,900.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 109.15          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,845.66             | 2,740.19              | 105.47                  | 26.981            |                    |         |
| 14,000.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 111.10          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,817.03             | 2,709.41              | 107.62                  | 26.176            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                 |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |        | Sec 13-T21S-R27E - Lone Tree Draw State Com 2H - Wellbore #1 - Wellbore #1 |         | Offset Site Error: 5.00 ft |  |
|-------------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|--------|----------------------------------------------------------------------------|---------|----------------------------|--|
| Survey Program: 80-GYRO-NS-CT |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |        | Offset Well Error: 0.50 ft                                                 |         |                            |  |
| Reference                     |                | Offset         |                | Semi Major Axis |        |                   | Distance               |                 |                  |                    |                   |        |                                                                            | Warning |                            |  |
| Measured Depth                | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor |        |                                                                            |         |                            |  |
| (ft)                          | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft)      | (ft)             | (ft)               | (ft)              |        |                                                                            |         |                            |  |
| 14,100.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 113.06          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,791.69         | 2,681.95           | 109.74            | 25.439 |                                                                            |         |                            |  |
| 14,200.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 115.03          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,769.72         | 2,657.90           | 111.82            | 24.769 |                                                                            |         |                            |  |
| 14,300.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 116.99          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,751.22         | 2,637.37           | 113.86            | 24.164 |                                                                            |         |                            |  |
| 14,400.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 118.96          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,736.26         | 2,620.43           | 115.83            | 23.624 |                                                                            |         |                            |  |
| 14,500.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 120.93          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,724.88         | 2,607.16           | 117.72            | 23.147 |                                                                            |         |                            |  |
| 14,600.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 122.90          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,717.13         | 2,597.60           | 119.53            | 22.731 |                                                                            |         |                            |  |
| 14,700.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 124.88          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,713.06         | 2,591.81           | 121.25            | 22.375 |                                                                            |         |                            |  |
| 14,760.69                     | 8,835.00       | 6,978.42       | 6,977.18       | 126.08          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,712.38         | 2,590.13           | 122.25            | 22.188 | CC                                                                         |         |                            |  |
| 14,800.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 126.86          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,712.66         | 2,589.79           | 122.87            | 22.078 | ES                                                                         |         |                            |  |
| 14,900.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 128.84          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,715.95         | 2,591.58           | 124.38            | 21.837 |                                                                            |         |                            |  |
| 15,000.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 130.82          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,722.91         | 2,597.15           | 125.77            | 21.650 |                                                                            |         |                            |  |
| 15,100.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 132.80          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,733.52         | 2,606.48           | 127.04            | 21.517 |                                                                            |         |                            |  |
| 15,200.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 134.79          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,747.72         | 2,619.53           | 128.19            | 21.435 |                                                                            |         |                            |  |
| 15,300.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 136.78          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,765.47         | 2,636.26           | 129.22            | 21.402 | SF                                                                         |         |                            |  |
| 15,400.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 138.76          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,786.70         | 2,656.58           | 130.12            | 21.417 |                                                                            |         |                            |  |
| 15,500.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 140.76          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,811.33         | 2,680.43           | 130.90            | 21.477 |                                                                            |         |                            |  |
| 15,600.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 142.75          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,839.27         | 2,707.71           | 131.56            | 21.582 |                                                                            |         |                            |  |
| 15,700.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 144.74          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,870.42         | 2,738.32           | 132.10            | 21.729 |                                                                            |         |                            |  |
| 15,800.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 146.74          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,904.68         | 2,772.15           | 132.53            | 21.917 |                                                                            |         |                            |  |
| 15,900.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 148.73          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,941.94         | 2,809.09           | 132.86            | 22.144 |                                                                            |         |                            |  |
| 16,000.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 150.73          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,982.09         | 2,849.01           | 133.08            | 22.408 |                                                                            |         |                            |  |
| 16,100.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 152.73          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,025.02         | 2,891.80           | 133.21            | 22.708 |                                                                            |         |                            |  |
| 16,200.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 154.73          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,070.60         | 2,937.34           | 133.26            | 23.042 |                                                                            |         |                            |  |
| 16,300.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 156.73          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,118.73         | 2,985.50           | 133.23            | 23.409 |                                                                            |         |                            |  |
| 16,400.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 158.74          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,169.28         | 3,036.16           | 133.12            | 23.807 |                                                                            |         |                            |  |
| 16,500.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 160.74          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,222.14         | 3,089.19           | 132.95            | 24.236 |                                                                            |         |                            |  |
| 16,600.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 162.74          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,277.20         | 3,144.48           | 132.72            | 24.692 |                                                                            |         |                            |  |
| 16,700.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 164.75          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,334.35         | 3,201.91           | 132.44            | 25.176 |                                                                            |         |                            |  |
| 16,800.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 166.76          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,393.49         | 3,261.37           | 132.11            | 25.686 |                                                                            |         |                            |  |
| 16,900.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 168.77          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,454.51         | 3,322.76           | 131.75            | 26.221 |                                                                            |         |                            |  |
| 17,000.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 170.77          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,517.31         | 3,385.97           | 131.34            | 26.780 |                                                                            |         |                            |  |
| 17,100.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 172.78          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,581.81         | 3,450.90           | 130.91            | 27.361 |                                                                            |         |                            |  |
| 17,200.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 174.79          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,647.90         | 3,517.45           | 130.45            | 27.963 |                                                                            |         |                            |  |
| 17,300.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 176.81          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,715.52         | 3,585.54           | 129.97            | 28.587 |                                                                            |         |                            |  |
| 17,400.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 178.82          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,784.56         | 3,655.09           | 129.48            | 29.230 |                                                                            |         |                            |  |
| 17,500.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 180.83          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,854.97         | 3,726.00           | 128.97            | 29.892 |                                                                            |         |                            |  |
| 17,600.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 182.84          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,926.66         | 3,798.22           | 128.44            | 30.571 |                                                                            |         |                            |  |
| 17,700.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 184.86          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,999.56         | 3,871.65           | 127.91            | 31.268 |                                                                            |         |                            |  |
| 17,800.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 186.87          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 4,073.62         | 3,946.24           | 127.38            | 31.981 |                                                                            |         |                            |  |
| 17,900.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 188.89          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 4,148.76         | 4,021.92           | 126.84            | 32.709 |                                                                            |         |                            |  |
| 18,000.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 190.91          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 4,224.94         | 4,098.64           | 126.30            | 33.452 |                                                                            |         |                            |  |
| 18,100.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 192.92          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 4,302.09         | 4,176.33           | 125.76            | 34.210 |                                                                            |         |                            |  |
| 18,200.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 194.94          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 4,380.16         | 4,254.94           | 125.22            | 34.980 |                                                                            |         |                            |  |
| 18,300.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 196.96          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 4,459.11         | 4,334.43           | 124.68            | 35.764 |                                                                            |         |                            |  |
| 18,400.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 198.98          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 4,538.89         | 4,414.74           | 124.15            | 36.560 |                                                                            |         |                            |  |
| 18,500.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 201.00          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 4,619.46         | 4,495.84           | 123.62            | 37.368 |                                                                            |         |                            |  |
| 18,600.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 203.02          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 4,700.77         | 4,577.67           | 123.10            | 38.186 |                                                                            |         |                            |  |
| 18,700.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 205.04          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 4,782.79         | 4,660.21           | 122.59            | 39.016 |                                                                            |         |                            |  |
| 18,800.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 207.06          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 4,865.49         | 4,743.41           | 122.08            | 39.855 |                                                                            |         |                            |  |
| 18,900.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 209.08          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 4,948.82         | 4,827.24           | 121.58            | 40.705 |                                                                            |         |                            |  |
| 19,000.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 211.10          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 5,032.76         | 4,911.68           | 121.09            | 41.563 |                                                                            |         |                            |  |
| 19,100.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 213.12          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 5,117.28         | 4,996.68           | 120.60            | 42.431 |                                                                            |         |                            |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw State Com 2H - Wellbore #1 - Wellbore #1 |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 5.00 ft |
|-------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|---------|
| Survey Program: 80-GYRO-NS-CT                                                                   |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                       |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                           | Warning |
| Measured Depth<br>(ft)                                                                          | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |         |
| 19,200.00                                                                                       | 8,835.00               | 6,978.42               | 6,977.18               | 215.15            | 24.76          | -48.25                      | 3,073.82                                | 5,827.87      | 5,202.35                   | 5,082.22                    | 120.13                        | 43.306                    |         |
| 19,308.27                                                                                       | 8,835.00               | 6,978.42               | 6,977.18               | 217.34            | 24.76          | -48.25                      | 3,073.82                                | 5,827.87      | 5,295.04                   | 5,175.41                    | 119.62                        | 44.264                    |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                        | 0.00                | 0.00                | 0.00                | 0.50            | 5.02        | 90.36                 | -44.33                            | 7,023.37   | 7,023.99             |                       |                         |                   |                    |         |
| 100.00                      | 100.00              | 18.20               | 18.20               | 0.52            | 5.03        | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,017.97              | 5.54                    | 1,266.823         |                    |         |
| 200.00                      | 200.00              | 118.20              | 118.20              | 0.70            | 5.28        | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,017.53              | 5.98                    | 1,174.220         |                    |         |
| 300.00                      | 300.00              | 218.20              | 218.20              | 0.99            | 5.91        | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,016.61              | 6.90                    | 1,017.952         |                    |         |
| 400.00                      | 400.00              | 318.20              | 318.20              | 1.31            | 6.82        | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,015.38              | 8.13                    | 863.956           |                    |         |
| 500.00                      | 500.00              | 418.20              | 418.20              | 1.65            | 7.91        | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,013.96              | 9.56                    | 735.027           |                    |         |
| 600.00                      | 600.00              | 518.20              | 518.20              | 1.99            | 9.11        | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,012.41              | 11.11                   | 632.451           |                    |         |
| 700.00                      | 700.00              | 618.20              | 618.20              | 2.34            | 10.40       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,010.78              | 12.74                   | 551.508           |                    |         |
| 800.00                      | 800.00              | 718.20              | 718.20              | 2.69            | 11.73       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,009.09              | 14.42                   | 487.114           |                    |         |
| 900.00                      | 900.00              | 818.20              | 818.20              | 3.04            | 13.10       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,007.37              | 16.14                   | 435.180           |                    |         |
| 1,000.00                    | 1,000.00            | 918.20              | 918.20              | 3.40            | 14.49       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,005.63              | 17.89                   | 392.669           |                    |         |
| 1,100.00                    | 1,100.00            | 1,018.20            | 1,018.20            | 3.75            | 15.90       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,003.86              | 19.65                   | 357.367           |                    |         |
| 1,200.00                    | 1,200.00            | 1,118.20            | 1,118.20            | 4.11            | 17.33       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,002.08              | 21.44                   | 327.664           |                    |         |
| 1,300.00                    | 1,300.00            | 1,218.20            | 1,218.20            | 4.46            | 18.76       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,000.28              | 23.23                   | 302.370           |                    |         |
| 1,400.00                    | 1,400.00            | 1,318.20            | 1,318.20            | 4.82            | 20.21       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 6,998.48              | 25.03                   | 280.601           |                    |         |
| 1,500.00                    | 1,500.00            | 1,418.20            | 1,418.20            | 5.18            | 21.66       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 6,996.67              | 26.84                   | 261.686           |                    |         |
| 1,600.00                    | 1,600.00            | 1,518.20            | 1,518.20            | 5.53            | 23.12       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 6,994.86              | 28.65                   | 245.111           |                    |         |
| 1,700.00                    | 1,700.00            | 1,618.20            | 1,618.20            | 5.89            | 24.58       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 6,993.04              | 30.47                   | 230.473           |                    |         |
| 1,800.00                    | 1,800.00            | 1,718.20            | 1,718.20            | 6.25            | 26.05       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 6,991.21              | 32.30                   | 217.459           |                    |         |
| 1,900.00                    | 1,900.00            | 1,818.20            | 1,818.20            | 6.61            | 27.52       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 6,989.39              | 34.13                   | 205.816           |                    |         |
| 2,000.00                    | 2,000.00            | 1,918.20            | 1,918.20            | 6.96            | 28.99       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 6,987.56              | 35.96                   | 195.341           |                    |         |
| 2,100.00                    | 2,099.99            | 2,018.19            | 2,018.19            | 7.32            | 30.47       | 103.15                | -44.33                            | 7,023.37   | 7,023.71             | 6,985.92              | 37.79                   | 185.877           |                    |         |
| 2,200.00                    | 2,199.96            | 2,118.16            | 2,118.16            | 7.68            | 31.94       | 103.16                | -44.33                            | 7,023.37   | 7,024.31             | 6,984.69              | 39.62                   | 177.294           |                    |         |
| 2,300.00                    | 2,299.86            | 2,218.06            | 2,218.06            | 8.04            | 33.42       | 103.19                | -44.33                            | 7,023.37   | 7,025.30             | 6,983.85              | 41.45                   | 169.477           |                    |         |
| 2,400.00                    | 2,399.68            | 2,317.88            | 2,317.88            | 8.39            | 34.90       | 103.22                | -44.33                            | 7,023.37   | 7,026.70             | 6,983.41              | 43.29                   | 162.333           |                    |         |
| 2,500.00                    | 2,499.37            | 2,417.57            | 2,417.57            | 8.75            | 36.38       | 103.27                | -44.33                            | 7,023.37   | 7,028.50             | 6,983.38              | 45.12                   | 155.781           |                    |         |
| 2,600.00                    | 2,598.90            | 2,517.10            | 2,517.10            | 9.11            | 37.85       | 103.32                | -44.33                            | 7,023.37   | 7,030.71             | 6,983.77              | 46.95                   | 149.752           |                    |         |
| 2,700.00                    | 2,698.26            | 2,616.46            | 2,616.46            | 9.46            | 39.32       | 103.38                | -44.33                            | 7,023.37   | 7,033.34             | 6,984.57              | 48.78                   | 144.189           |                    |         |
| 2,800.00                    | 2,797.40            | 2,715.60            | 2,715.60            | 9.82            | 40.80       | 103.46                | -44.33                            | 7,023.37   | 7,036.40             | 6,985.79              | 50.61                   | 139.042           |                    |         |
| 2,900.00                    | 2,896.30            | 2,814.50            | 2,814.50            | 10.18           | 42.27       | 103.54                | -44.33                            | 7,023.37   | 7,039.88             | 6,987.45              | 52.43                   | 134.267           |                    |         |
| 3,000.00                    | 2,994.93            | 2,913.13            | 2,913.13            | 10.54           | 43.73       | 103.63                | -44.33                            | 7,023.37   | 7,043.81             | 6,989.56              | 54.26                   | 129.828           |                    |         |
| 3,100.00                    | 3,093.26            | 3,011.46            | 3,011.46            | 10.90           | 45.19       | 103.73                | -44.33                            | 7,023.37   | 7,048.19             | 6,992.12              | 56.08                   | 125.691           |                    |         |
| 3,195.07                    | 3,186.42            | 3,104.62            | 3,104.62            | 11.24           | 46.58       | 103.83                | -44.33                            | 7,023.37   | 7,052.78             | 6,994.98              | 57.80                   | 122.012           |                    |         |
| 3,200.00                    | 3,191.25            | 3,109.45            | 3,109.45            | 11.26           | 46.65       | 103.84                | -44.33                            | 7,023.37   | 7,053.03             | 6,995.14              | 57.89                   | 121.828           |                    |         |
| 3,300.00                    | 3,289.08            | 3,207.28            | 3,207.28            | 11.62           | 48.11       | 104.00                | -44.33                            | 7,023.37   | 7,058.12             | 6,998.40              | 59.71                   | 118.204           |                    |         |
| 3,400.00                    | 3,386.91            | 3,305.11            | 3,305.11            | 11.98           | 49.56       | 104.16                | -44.33                            | 7,023.37   | 7,063.26             | 7,001.73              | 61.53                   | 114.791           |                    |         |
| 3,500.00                    | 3,484.74            | 3,402.94            | 3,402.94            | 12.35           | 51.02       | 104.32                | -44.33                            | 7,023.37   | 7,068.46             | 7,005.10              | 63.35                   | 111.572           |                    |         |
| 3,600.00                    | 3,582.58            | 3,500.78            | 3,500.78            | 12.72           | 52.48       | 104.48                | -44.33                            | 7,023.37   | 7,073.71             | 7,008.53              | 65.18                   | 108.530           |                    |         |
| 3,700.00                    | 3,680.41            | 3,598.61            | 3,598.61            | 13.09           | 53.93       | 104.63                | -44.33                            | 7,023.37   | 7,079.02             | 7,012.02              | 67.00                   | 105.651           |                    |         |
| 3,800.00                    | 3,778.24            | 3,696.44            | 3,696.44            | 13.46           | 55.39       | 104.79                | -44.33                            | 7,023.37   | 7,084.39             | 7,015.56              | 68.83                   | 102.924           |                    |         |
| 3,900.00                    | 3,876.08            | 3,794.28            | 3,794.28            | 13.83           | 56.85       | 104.95                | -44.33                            | 7,023.37   | 7,089.81             | 7,019.15              | 70.66                   | 100.337           |                    |         |
| 4,000.00                    | 3,973.91            | 3,892.11            | 3,892.11            | 14.21           | 58.31       | 105.11                | -44.33                            | 7,023.37   | 7,095.30             | 7,022.81              | 72.49                   | 97.879            |                    |         |
| 4,100.00                    | 4,071.74            | 3,989.94            | 3,989.94            | 14.58           | 59.77       | 105.27                | -44.33                            | 7,023.37   | 7,100.83             | 7,026.51              | 74.32                   | 95.541            |                    |         |
| 4,200.00                    | 4,169.57            | 4,087.77            | 4,087.77            | 14.96           | 61.23       | 105.43                | -44.33                            | 7,023.37   | 7,106.43             | 7,030.27              | 76.15                   | 93.315            |                    |         |
| 4,300.00                    | 4,267.41            | 4,185.61            | 4,185.61            | 15.33           | 62.68       | 105.58                | -44.33                            | 7,023.37   | 7,112.07             | 7,034.09              | 77.99                   | 91.193            |                    |         |
| 4,400.00                    | 4,365.24            | 4,283.44            | 4,283.44            | 15.71           | 64.14       | 105.74                | -44.33                            | 7,023.37   | 7,117.78             | 7,037.96              | 79.82                   | 89.169            |                    |         |
| 4,500.00                    | 4,463.07            | 4,381.27            | 4,381.27            | 16.09           | 65.60       | 105.90                | -44.33                            | 7,023.37   | 7,123.54             | 7,041.88              | 81.66                   | 87.235            |                    |         |
| 4,600.00                    | 4,560.90            | 4,479.10            | 4,479.10            | 16.47           | 67.06       | 106.06                | -44.33                            | 7,023.37   | 7,129.36             | 7,045.86              | 83.50                   | 85.385            |                    |         |
| 4,700.00                    | 4,658.74            | 4,576.94            | 4,576.94            | 16.85           | 68.52       | 106.21                | -44.33                            | 7,023.37   | 7,135.23             | 7,049.89              | 85.33                   | 83.616            |                    |         |
| 4,800.00                    | 4,756.57            | 4,674.77            | 4,674.77            | 17.23           | 69.98       | 106.37                | -44.33                            | 7,023.37   | 7,141.15             | 7,053.98              | 87.17                   | 81.920            |                    |         |
| 4,900.00                    | 4,854.40            | 4,772.60            | 4,772.60            | 17.61           | 71.44       | 106.52                | -44.33                            | 7,023.37   | 7,147.14             | 7,058.12              | 89.01                   | 80.295            |                    |         |
| 5,000.00                    | 4,952.23            | 4,870.43            | 4,870.43            | 17.99           | 72.90       | 106.68                | -44.33                            | 7,023.37   | 7,153.17             | 7,062.32              | 90.85                   | 78.736            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                    | 5,050.07            | 4,968.27            | 4,968.27            | 18.37           | 74.36       | 106.84                | -44.33                            | 7,023.37   | 7,159.26             | 7,066.57              | 92.69                   | 77.238            |                    |         |
| 5,200.00                    | 5,147.90            | 5,066.10            | 5,066.10            | 18.75           | 75.83       | 106.99                | -44.33                            | 7,023.37   | 7,165.41             | 7,070.88              | 94.53                   | 75.799            |                    |         |
| 5,300.00                    | 5,245.73            | 5,163.93            | 5,163.93            | 19.14           | 77.29       | 107.15                | -44.33                            | 7,023.37   | 7,171.61             | 7,075.24              | 96.37                   | 74.415            |                    |         |
| 5,400.00                    | 5,343.56            | 5,261.76            | 5,261.76            | 19.52           | 78.75       | 107.30                | -44.33                            | 7,023.37   | 7,177.86             | 7,079.65              | 98.21                   | 73.084            |                    |         |
| 5,500.00                    | 5,441.40            | 5,359.60            | 5,359.60            | 19.90           | 80.21       | 107.46                | -44.33                            | 7,023.37   | 7,184.17             | 7,084.12              | 100.06                  | 71.801            |                    |         |
| 5,600.00                    | 5,539.23            | 5,457.43            | 5,457.43            | 20.29           | 81.67       | 107.61                | -44.33                            | 7,023.37   | 7,190.54             | 7,088.64              | 101.90                  | 70.565            |                    |         |
| 5,700.00                    | 5,637.06            | 5,555.26            | 5,555.26            | 20.67           | 83.13       | 107.76                | -44.33                            | 7,023.37   | 7,196.95             | 7,093.21              | 103.74                  | 69.373            |                    |         |
| 5,800.00                    | 5,734.90            | 5,653.10            | 5,653.10            | 21.05           | 84.59       | 107.92                | -44.33                            | 7,023.37   | 7,203.42             | 7,097.84              | 105.59                  | 68.223            |                    |         |
| 5,900.00                    | 5,832.73            | 5,750.93            | 5,750.93            | 21.44           | 86.05       | 108.07                | -44.33                            | 7,023.37   | 7,209.95             | 7,102.52              | 107.43                  | 67.113            |                    |         |
| 6,000.00                    | 5,930.56            | 5,848.76            | 5,848.76            | 21.83           | 87.51       | 108.22                | -44.33                            | 7,023.37   | 7,216.53             | 7,107.25              | 109.27                  | 66.041            |                    |         |
| 6,100.00                    | 6,028.39            | 5,946.59            | 5,946.59            | 22.21           | 88.98       | 108.38                | -44.33                            | 7,023.37   | 7,223.16             | 7,112.04              | 111.12                  | 65.004            |                    |         |
| 6,200.00                    | 6,126.23            | 6,044.43            | 6,044.43            | 22.60           | 90.44       | 108.53                | -44.33                            | 7,023.37   | 7,229.84             | 7,116.88              | 112.96                  | 64.002            |                    |         |
| 6,300.00                    | 6,224.06            | 6,142.26            | 6,142.26            | 22.98           | 91.90       | 108.68                | -44.33                            | 7,023.37   | 7,236.58             | 7,121.77              | 114.81                  | 63.032            |                    |         |
| 6,400.00                    | 6,321.89            | 6,240.09            | 6,240.09            | 23.37           | 93.36       | 108.83                | -44.33                            | 7,023.37   | 7,243.37             | 7,126.72              | 116.65                  | 62.093            |                    |         |
| 6,500.00                    | 6,419.72            | 6,337.92            | 6,337.92            | 23.76           | 94.82       | 108.99                | -44.33                            | 7,023.37   | 7,250.21             | 7,131.72              | 118.50                  | 61.184            |                    |         |
| 6,600.00                    | 6,517.56            | 6,435.76            | 6,435.76            | 24.14           | 96.29       | 109.14                | -44.33                            | 7,023.37   | 7,257.11             | 7,136.77              | 120.34                  | 60.303            |                    |         |
| 6,700.00                    | 6,615.39            | 6,533.59            | 6,533.59            | 24.53           | 97.75       | 109.29                | -44.33                            | 7,023.37   | 7,264.06             | 7,141.87              | 122.19                  | 59.448            |                    |         |
| 6,800.00                    | 6,713.22            | 6,631.42            | 6,631.42            | 24.92           | 99.21       | 109.44                | -44.33                            | 7,023.37   | 7,271.06             | 7,147.02              | 124.04                  | 58.620            |                    |         |
| 6,900.00                    | 6,811.05            | 6,729.25            | 6,729.25            | 25.30           | 100.67      | 109.59                | -44.33                            | 7,023.37   | 7,278.11             | 7,152.23              | 125.88                  | 57.816            |                    |         |
| 7,000.00                    | 6,908.89            | 6,827.09            | 6,827.09            | 25.69           | 102.13      | 109.74                | -44.33                            | 7,023.37   | 7,285.22             | 7,157.49              | 127.73                  | 57.036            |                    |         |
| 7,100.00                    | 7,006.72            | 6,924.92            | 6,924.92            | 26.08           | 103.60      | 109.89                | -44.33                            | 7,023.37   | 7,292.38             | 7,162.80              | 129.58                  | 56.278            |                    |         |
| 7,200.00                    | 7,104.55            | 7,022.75            | 7,022.75            | 26.47           | 105.06      | 110.04                | -44.33                            | 7,023.37   | 7,299.58             | 7,168.16              | 131.42                  | 55.542            |                    |         |
| 7,216.87                    | 7,121.05            | 7,039.25            | 7,039.25            | 26.53           | 105.30      | 110.07                | -44.33                            | 7,023.37   | 7,300.81             | 7,169.07              | 131.74                  | 55.420            |                    |         |
| 7,300.00                    | 7,202.57            | 7,120.77            | 7,120.77            | 26.85           | 106.52      | 110.27                | -44.33                            | 7,023.37   | 7,306.53             | 7,173.26              | 133.27                  | 54.824            |                    |         |
| 7,400.00                    | 7,301.06            | 7,219.26            | 7,219.26            | 27.23           | 107.99      | 110.48                | -44.33                            | 7,023.37   | 7,312.63             | 7,177.51              | 135.12                  | 54.118            |                    |         |
| 7,500.00                    | 7,399.97            | 7,318.17            | 7,318.17            | 27.61           | 109.47      | 110.66                | -44.33                            | 7,023.37   | 7,317.85             | 7,180.87              | 136.97                  | 53.425            |                    |         |
| 7,600.00                    | 7,499.23            | 7,417.43            | 7,417.43            | 27.98           | 110.96      | 110.81                | -44.33                            | 7,023.37   | 7,322.16             | 7,183.33              | 138.83                  | 52.744            |                    |         |
| 7,700.00                    | 7,598.77            | 7,516.97            | 7,516.97            | 28.34           | 112.45      | 110.92                | -44.33                            | 7,023.37   | 7,325.56             | 7,184.88              | 140.67                  | 52.074            |                    |         |
| 7,800.00                    | 7,698.53            | 7,616.73            | 7,616.73            | 28.70           | 113.94      | 111.01                | -44.33                            | 7,023.37   | 7,328.03             | 7,185.51              | 142.52                  | 51.417            |                    |         |
| 7,900.00                    | 7,798.44            | 7,716.64            | 7,716.64            | 29.05           | 115.43      | 111.06                | -44.33                            | 7,023.37   | 7,329.57             | 7,185.20              | 144.36                  | 50.771            |                    |         |
| 8,000.00                    | 7,898.42            | 7,816.62            | 7,816.62            | 29.39           | 116.92      | 111.08                | -44.33                            | 7,023.37   | 7,330.17             | 7,183.96              | 146.20                  | 50.137            |                    |         |
| 8,013.58                    | 7,912.00            | 7,830.20            | 7,830.20            | 29.43           | 117.13      | 98.30                 | -44.33                            | 7,023.37   | 7,330.17             | 7,183.72              | 146.45                  | 50.052            |                    |         |
| 8,100.00                    | 7,998.42            | 7,916.62            | 7,916.62            | 29.73           | 118.42      | 98.30                 | -44.33                            | 7,023.37   | 7,330.17             | 7,182.14              | 148.04                  | 49.516            |                    |         |
| 8,200.00                    | 8,098.42            | 8,016.62            | 8,016.62            | 30.07           | 119.91      | 98.30                 | -44.33                            | 7,023.37   | 7,330.17             | 7,180.30              | 149.87                  | 48.910            |                    |         |
| 8,300.00                    | 8,198.42            | 8,116.62            | 8,116.62            | 30.41           | 121.41      | 98.30                 | -44.33                            | 7,023.37   | 7,330.17             | 7,178.47              | 151.71                  | 48.318            |                    |         |
| 8,363.62                    | 8,262.04            | 8,180.24            | 8,180.24            | 30.62           | 122.36      | 98.30                 | -44.33                            | 7,023.37   | 7,330.17             | 7,177.30              | 152.87                  | 47.949            |                    |         |
| 8,400.00                    | 8,298.40            | 8,216.60            | 8,216.60            | 30.75           | 122.90      | 8.66                  | -44.33                            | 7,023.37   | 7,329.03             | 7,175.49              | 153.54                  | 47.734            |                    |         |
| 8,450.00                    | 8,348.10            | 8,266.30            | 8,266.30            | 30.91           | 123.65      | 8.75                  | -44.33                            | 7,023.37   | 7,323.75             | 7,169.31              | 154.44                  | 47.421            |                    |         |
| 8,500.00                    | 8,397.14            | 8,315.34            | 8,315.34            | 31.07           | 124.38      | 8.91                  | -44.33                            | 7,023.37   | 7,314.20             | 7,158.88              | 155.33                  | 47.089            |                    |         |
| 8,550.00                    | 8,445.15            | 8,363.35            | 8,363.35            | 31.23           | 125.10      | 9.15                  | -44.33                            | 7,023.37   | 7,300.47             | 7,144.28              | 156.19                  | 46.741            |                    |         |
| 8,600.00                    | 8,491.77            | 8,409.97            | 8,409.97            | 31.38           | 125.80      | 9.48                  | -44.33                            | 7,023.37   | 7,282.65             | 7,125.62              | 157.03                  | 46.379            |                    |         |
| 8,650.00                    | 8,536.65            | 8,454.85            | 8,454.85            | 31.52           | 126.47      | 9.92                  | -44.33                            | 7,023.37   | 7,260.88             | 7,103.06              | 157.82                  | 46.006            |                    |         |
| 8,700.00                    | 8,579.43            | 8,497.63            | 8,497.63            | 31.66           | 127.11      | 10.48                 | -44.33                            | 7,023.37   | 7,235.34             | 7,076.76              | 158.58                  | 45.626            |                    |         |
| 8,750.00                    | 8,619.80            | 8,538.00            | 8,538.00            | 31.80           | 127.71      | 11.20                 | -44.33                            | 7,023.37   | 7,206.21             | 7,046.92              | 159.29                  | 45.240            |                    |         |
| 8,800.00                    | 8,657.44            | 8,575.64            | 8,575.64            | 31.93           | 128.27      | 12.12                 | -44.33                            | 7,023.37   | 7,173.71             | 7,013.77              | 159.94                  | 44.852            |                    |         |
| 8,850.00                    | 8,692.08            | 8,610.28            | 8,610.28            | 32.06           | 128.79      | 13.30                 | -44.33                            | 7,023.37   | 7,138.10             | 6,977.56              | 160.54                  | 44.463            |                    |         |
| 8,900.00                    | 8,723.44            | 8,641.64            | 8,641.64            | 32.19           | 129.26      | 14.84                 | -44.33                            | 7,023.37   | 7,099.65             | 6,938.57              | 161.08                  | 44.076            |                    |         |
| 8,950.00                    | 8,751.29            | 8,669.49            | 8,669.49            | 32.34           | 129.68      | 16.89                 | -44.33                            | 7,023.37   | 7,058.65             | 6,897.10              | 161.55                  | 43.693            |                    |         |
| 9,000.00                    | 8,775.42            | 8,693.62            | 8,693.62            | 32.50           | 130.04      | 19.70                 | -44.33                            | 7,023.37   | 7,015.41             | 6,853.45              | 161.96                  | 43.316            |                    |         |
| 9,050.00                    | 8,795.64            | 8,713.84            | 8,713.84            | 32.67           | 130.34      | 23.72                 | -44.33                            | 7,023.37   | 6,970.27             | 6,807.97              | 162.30                  | 42.948            |                    |         |
| 9,100.00                    | 8,811.80            | 8,730.00            | 8,730.00            | 32.87           | 130.58      | 29.77                 | -44.33                            | 7,023.37   | 6,923.57             | 6,761.00              | 162.57                  | 42.589            |                    |         |
| 9,150.00                    | 8,823.77            | 8,741.97            | 8,741.97            | 33.10           | 130.76      | 39.48                 | -44.33                            | 7,023.37   | 6,875.66             | 6,712.89              | 162.77                  | 42.242            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,200.00                    | 8,831.47            | 8,749.67            | 8,749.67            | 33.34           | 130.88      | 55.87                 | -44.33                            | 7,023.37   | 6,826.92             | 6,664.02              | 162.90                  | 41.908            |                    |         |
| 9,250.00                    | 8,834.84            | 8,753.04            | 8,753.04            | 33.60           | 130.93      | 81.79                 | -44.33                            | 7,023.37   | 6,777.71             | 6,614.74              | 162.97                  | 41.589            |                    |         |
| 9,263.62                    | 8,835.00            | 8,753.20            | 8,753.20            | 33.67           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,764.27             | 6,601.29              | 162.98                  | 41.505            |                    |         |
| 9,300.00                    | 8,835.00            | 8,753.20            | 8,753.20            | 33.88           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,728.38             | 6,565.39              | 162.99                  | 41.281            |                    |         |
| 9,400.00                    | 8,835.00            | 8,753.20            | 8,753.20            | 34.53           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,629.75             | 6,466.72              | 163.02                  | 40.667            |                    |         |
| 9,500.00                    | 8,835.00            | 8,753.20            | 8,753.20            | 35.30           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,531.16             | 6,368.09              | 163.06                  | 40.053            |                    |         |
| 9,600.00                    | 8,835.00            | 8,753.20            | 8,753.20            | 36.17           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,432.61             | 6,269.50              | 163.11                  | 39.437            |                    |         |
| 9,700.00                    | 8,835.00            | 8,753.20            | 8,753.20            | 37.13           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,334.11             | 6,170.95              | 163.17                  | 38.820            |                    |         |
| 9,800.00                    | 8,835.00            | 8,753.20            | 8,753.20            | 38.18           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,235.66             | 6,072.43              | 163.23                  | 38.202            |                    |         |
| 9,900.00                    | 8,835.00            | 8,753.20            | 8,753.20            | 39.31           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,137.26             | 5,973.96              | 163.30                  | 37.583            |                    |         |
| 10,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 40.51           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,038.91             | 5,875.53              | 163.38                  | 36.963            |                    |         |
| 10,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 41.78           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,940.62             | 5,777.15              | 163.47                  | 36.342            |                    |         |
| 10,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 43.10           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,842.38             | 5,678.82              | 163.56                  | 35.719            |                    |         |
| 10,300.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 44.49           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,744.20             | 5,580.53              | 163.67                  | 35.096            |                    |         |
| 10,400.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 45.92           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,646.09             | 5,482.30              | 163.79                  | 34.471            |                    |         |
| 10,500.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 47.39           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,548.05             | 5,384.13              | 163.92                  | 33.846            |                    |         |
| 10,600.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 48.91           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,450.07             | 5,286.01              | 164.07                  | 33.219            |                    |         |
| 10,700.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 50.47           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,352.18             | 5,187.95              | 164.23                  | 32.590            |                    |         |
| 10,800.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 52.06           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,254.36             | 5,089.96              | 164.40                  | 31.961            |                    |         |
| 10,900.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 53.68           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,156.62             | 4,992.03              | 164.59                  | 31.330            |                    |         |
| 11,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 55.32           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,058.98             | 4,894.18              | 164.80                  | 30.698            |                    |         |
| 11,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 57.00           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,961.42             | 4,796.40              | 165.02                  | 30.065            |                    |         |
| 11,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 58.70           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,863.97             | 4,698.70              | 165.27                  | 29.431            |                    |         |
| 11,300.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 60.41           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,766.62             | 4,601.08              | 165.54                  | 28.795            |                    |         |
| 11,400.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 62.15           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,669.38             | 4,503.56              | 165.83                  | 28.158            |                    |         |
| 11,500.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 63.91           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,572.27             | 4,406.12              | 166.15                  | 27.520            |                    |         |
| 11,600.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 65.69           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,475.28             | 4,308.79              | 166.49                  | 26.880            |                    |         |
| 11,700.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 67.47           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,378.42             | 4,211.56              | 166.86                  | 26.239            |                    |         |
| 11,800.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 69.28           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,281.71             | 4,114.44              | 167.27                  | 25.597            |                    |         |
| 11,900.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 71.09           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,185.16             | 4,017.45              | 167.71                  | 24.954            |                    |         |
| 12,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 72.92           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,088.77             | 3,920.58              | 168.19                  | 24.310            |                    |         |
| 12,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 74.76           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,992.56             | 3,823.85              | 168.71                  | 23.665            |                    |         |
| 12,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 76.61           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,896.54             | 3,727.26              | 169.28                  | 23.019            |                    |         |
| 12,300.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 78.47           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,800.72             | 3,630.83              | 169.89                  | 22.372            |                    |         |
| 12,400.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 80.34           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,705.13             | 3,534.57              | 170.55                  | 21.724            |                    |         |
| 12,500.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 82.22           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,609.77             | 3,438.50              | 171.28                  | 21.076            |                    |         |
| 12,600.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 84.11           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,514.67             | 3,342.61              | 172.06                  | 20.427            |                    |         |
| 12,700.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 86.00           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,419.85             | 3,246.95              | 172.91                  | 19.779            |                    |         |
| 12,800.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 87.90           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,325.34             | 3,151.51              | 173.83                  | 19.130            |                    |         |
| 12,900.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 89.81           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,231.16             | 3,056.33              | 174.83                  | 18.482            |                    |         |
| 13,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 91.72           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,137.33             | 2,961.42              | 175.91                  | 17.835            |                    |         |
| 13,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 93.64           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,043.90             | 2,866.81              | 177.09                  | 17.188            |                    |         |
| 13,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 95.56           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,950.90             | 2,772.53              | 178.37                  | 16.544            |                    |         |
| 13,300.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 97.49           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,858.37             | 2,678.61              | 179.76                  | 15.901            |                    |         |
| 13,400.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 99.42           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,766.36             | 2,585.09              | 181.27                  | 15.261            |                    |         |
| 13,500.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 101.36          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,674.93             | 2,492.02              | 182.91                  | 14.624            |                    |         |
| 13,600.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 103.30          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,584.13             | 2,399.43              | 184.70                  | 13.991            |                    |         |
| 13,700.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 105.25          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,494.03             | 2,307.40              | 186.64                  | 13.363            |                    |         |
| 13,800.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 107.20          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,404.72             | 2,215.98              | 188.75                  | 12.741            |                    |         |
| 13,900.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 109.15          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,316.28             | 2,125.24              | 191.04                  | 12.125            |                    |         |
| 14,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 111.10          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,228.82             | 2,035.28              | 193.54                  | 11.516            |                    |         |
| 14,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 113.06          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,142.46             | 1,946.21              | 196.25                  | 10.917            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 14,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 115.03          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,057.33             | 1,858.12              | 199.21                  | 10.328            |                    |         |
| 14,300.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 116.99          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,973.60             | 1,771.18              | 202.42                  | 9.750             |                    |         |
| 14,400.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 118.96          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,891.45             | 1,685.54              | 205.90                  | 9.186             |                    |         |
| 14,500.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 120.93          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,811.09             | 1,601.41              | 209.68                  | 8.637             |                    |         |
| 14,600.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 122.90          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,732.78             | 1,519.01              | 213.77                  | 8.106             |                    |         |
| 14,700.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 124.88          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,656.81             | 1,438.62              | 218.19                  | 7.593             |                    |         |
| 14,800.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 126.86          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,583.51             | 1,360.57              | 222.93                  | 7.103             |                    |         |
| 14,900.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 128.84          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,513.27             | 1,285.26              | 228.01                  | 6.637             |                    |         |
| 15,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 130.82          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,446.53             | 1,213.14              | 233.39                  | 6.198             |                    |         |
| 15,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 132.80          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,383.81             | 1,144.77              | 239.04                  | 5.789             |                    |         |
| 15,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 134.79          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,325.68             | 1,080.77              | 244.91                  | 5.413             |                    |         |
| 15,300.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 136.78          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,272.75             | 1,021.87              | 250.88                  | 5.073             |                    |         |
| 15,400.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 138.76          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,225.72             | 968.87                | 256.84                  | 4.772             | Alert              |         |
| 15,500.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 140.76          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,185.27             | 922.65                | 262.61                  | 4.513             | Alert              |         |
| 15,600.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 142.75          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,152.10             | 884.11                | 267.99                  | 4.299             | Alert              |         |
| 15,700.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 144.74          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,126.86             | 854.11                | 272.75                  | 4.131             | Alert              |         |
| 15,800.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 146.74          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,110.09             | 833.41                | 276.69                  | 4.012             | Alert              |         |
| 15,900.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 148.73          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,102.17             | 822.57                | 279.60                  | 3.942             | Alert              |         |
| 15,937.60                   | 8,835.00            | 8,753.20            | 8,753.20            | 149.48          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,101.53             | 821.12                | 280.41                  | 3.928             | Alert, CC, ES      |         |
| 16,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 150.73          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,103.30             | 821.91                | 281.39                  | 3.921             | Alert, SF          |         |
| 16,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 152.73          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,113.44             | 831.44                | 282.00                  | 3.948             | Alert              |         |
| 16,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 154.73          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,132.35             | 850.87                | 281.48                  | 4.023             | Alert              |         |
| 16,300.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 156.73          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,159.61             | 879.65                | 279.97                  | 4.142             | Alert              |         |
| 16,400.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 158.74          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,194.65             | 917.04                | 277.61                  | 4.303             | Alert              |         |
| 16,500.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 160.74          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,236.80             | 962.18                | 274.61                  | 4.504             | Alert              |         |
| 16,600.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 162.74          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,285.36             | 1,014.20              | 271.16                  | 4.740             | Alert              |         |
| 16,700.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 164.75          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,339.64             | 1,072.22              | 267.41                  | 5.010             |                    |         |
| 16,800.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 166.76          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,398.97             | 1,135.44              | 263.52                  | 5.309             |                    |         |
| 16,900.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 168.77          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,462.73             | 1,203.14              | 259.60                  | 5.635             |                    |         |
| 17,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 170.77          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,530.38             | 1,274.67              | 255.72                  | 5.985             |                    |         |
| 17,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 172.78          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,601.42             | 1,349.48              | 251.94                  | 6.356             |                    |         |
| 17,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 174.79          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,675.42             | 1,427.11              | 248.31                  | 6.747             |                    |         |
| 17,300.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 176.81          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,752.00             | 1,507.15              | 244.85                  | 7.155             |                    |         |
| 17,400.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 178.82          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,830.84             | 1,589.27              | 241.57                  | 7.579             |                    |         |
| 17,500.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 180.83          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,911.67             | 1,673.19              | 238.47                  | 8.016             |                    |         |
| 17,600.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 182.84          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,994.23             | 1,758.67              | 235.56                  | 8.466             |                    |         |
| 17,700.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 184.86          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,078.33             | 1,845.50              | 232.83                  | 8.926             |                    |         |
| 17,800.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 186.87          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,163.77             | 1,933.51              | 230.27                  | 9.397             |                    |         |
| 17,900.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 188.89          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,250.42             | 2,022.56              | 227.87                  | 9.876             |                    |         |
| 18,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 190.91          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,338.14             | 2,112.52              | 225.62                  | 10.363            |                    |         |
| 18,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 192.92          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,426.80             | 2,203.28              | 223.52                  | 10.857            |                    |         |
| 18,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 194.94          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,516.31             | 2,294.77              | 221.55                  | 11.358            |                    |         |
| 18,300.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 196.96          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,606.59             | 2,386.89              | 219.70                  | 11.864            |                    |         |
| 18,400.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 198.98          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,697.55             | 2,479.58              | 217.97                  | 12.376            |                    |         |
| 18,500.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 201.00          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,789.14             | 2,572.78              | 216.35                  | 12.892            |                    |         |
| 18,600.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 203.02          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,881.28             | 2,666.44              | 214.83                  | 13.412            |                    |         |
| 18,700.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 205.04          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,973.93             | 2,760.52              | 213.41                  | 13.936            |                    |         |
| 18,800.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 207.06          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,067.04             | 2,854.97              | 212.06                  | 14.463            |                    |         |
| 18,900.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 209.08          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,160.57             | 2,949.77              | 210.80                  | 14.993            |                    |         |
| 19,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 211.10          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,254.49             | 3,044.87              | 209.61                  | 15.526            |                    |         |
| 19,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 213.12          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,348.76             | 3,140.26              | 208.49                  | 16.062            |                    |         |
| 19,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 215.15          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,443.35             | 3,235.91              | 207.44                  | 16.599            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree State #001 - Wellbore #1 - Wellbore #1 |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 5.00 ft |
|------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|---------|
| Survey Program: 10-INC-ONLY                                                              |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                | Offset                 | Semi Major Axis        |                        | Distance          |                |                             |                                         |               |                            |                             |                               |                           |         |
| Measured Depth<br>(ft)                                                                   | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      | Warning |
| 19,308.27                                                                                | 8,835.00               | 8,753.20               | 8,753.20               | 217.34            | 130.93         | 90.00                       | -44.33                                  | 7,023.37      | 3,546.10                   | 3,339.73                    | 206.36                        | 17.184                    |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft  |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|----------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 10.00 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |          |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |          |
| 0.00                        | 0.00                | 0.00                | 0.00                | 0.50            | 10.00       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.50             |                       |                         |                   |                    |          |
| 100.00                      | 100.00              | 80.20               | 80.20               | 0.52            | 10.10       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,062.82              | 10.62                   | 289.452           |                    |          |
| 200.00                      | 200.00              | 180.20              | 180.20              | 0.70            | 10.58       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,062.16              | 11.28                   | 272.506           |                    |          |
| 300.00                      | 300.00              | 280.20              | 280.20              | 0.99            | 11.40       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,061.05              | 12.38                   | 248.175           |                    |          |
| 400.00                      | 400.00              | 380.20              | 380.20              | 1.31            | 12.49       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,059.63              | 13.80                   | 222.661           |                    |          |
| 500.00                      | 500.00              | 480.20              | 480.20              | 1.65            | 13.80       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,057.99              | 15.45                   | 198.947           |                    |          |
| 600.00                      | 600.00              | 580.20              | 580.20              | 1.99            | 15.27       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,056.18              | 17.26                   | 178.087           |                    |          |
| 700.00                      | 700.00              | 680.20              | 680.20              | 2.34            | 16.85       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,054.25              | 19.19                   | 160.176           |                    |          |
| 800.00                      | 800.00              | 780.20              | 780.20              | 2.69            | 18.52       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,052.23              | 21.21                   | 144.929           |                    |          |
| 900.00                      | 900.00              | 880.20              | 880.20              | 3.04            | 20.25       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,050.14              | 23.29                   | 131.954           |                    |          |
| 1,000.00                    | 1,000.00            | 980.20              | 980.20              | 3.40            | 22.03       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,048.01              | 25.43                   | 120.869           |                    |          |
| 1,100.00                    | 1,100.00            | 1,080.20            | 1,080.20            | 3.75            | 23.85       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,045.83              | 27.60                   | 111.343           |                    |          |
| 1,200.00                    | 1,200.00            | 1,180.20            | 1,180.20            | 4.11            | 25.70       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,043.62              | 29.81                   | 103.102           |                    |          |
| 1,300.00                    | 1,300.00            | 1,280.20            | 1,280.20            | 4.46            | 27.58       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,041.39              | 32.04                   | 95.922            |                    |          |
| 1,400.00                    | 1,400.00            | 1,380.20            | 1,380.20            | 4.82            | 29.47       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,039.14              | 34.29                   | 89.626            |                    |          |
| 1,500.00                    | 1,500.00            | 1,480.20            | 1,480.20            | 5.18            | 31.38       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,036.87              | 36.56                   | 84.067            |                    |          |
| 1,600.00                    | 1,600.00            | 1,580.20            | 1,580.20            | 5.53            | 33.31       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,034.59              | 38.84                   | 79.130            |                    |          |
| 1,700.00                    | 1,700.00            | 1,680.20            | 1,680.20            | 5.89            | 35.24       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,032.30              | 41.13                   | 74.720            |                    |          |
| 1,800.00                    | 1,800.00            | 1,780.20            | 1,780.20            | 6.25            | 37.19       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,030.00              | 43.43                   | 70.760            |                    |          |
| 1,900.00                    | 1,900.00            | 1,880.20            | 1,880.20            | 6.61            | 39.14       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,027.69              | 45.74                   | 67.187            |                    |          |
| 2,000.00                    | 2,000.00            | 1,980.20            | 1,980.20            | 6.96            | 41.10       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,025.37              | 48.06                   | 63.948            |                    |          |
| 2,100.00                    | 2,099.99            | 2,080.19            | 2,080.19            | 7.32            | 43.06       | 46.16                 | 2,566.83                          | 1,690.39   | 3,072.83             | 3,022.45              | 50.38                   | 60.989            |                    |          |
| 2,200.00                    | 2,199.96            | 2,180.16            | 2,180.16            | 7.68            | 45.03       | 46.21                 | 2,566.83                          | 1,690.39   | 3,071.02             | 3,018.31              | 52.71                   | 58.262            |                    |          |
| 2,300.00                    | 2,299.86            | 2,280.06            | 2,280.06            | 8.04            | 47.01       | 46.29                 | 2,566.83                          | 1,690.39   | 3,068.00             | 3,012.96              | 55.04                   | 55.741            |                    |          |
| 2,400.00                    | 2,399.68            | 2,379.88            | 2,379.88            | 8.39            | 48.98       | 46.40                 | 2,566.83                          | 1,690.39   | 3,063.78             | 3,006.41              | 57.37                   | 53.401            |                    |          |
| 2,500.00                    | 2,499.37            | 2,479.57            | 2,479.57            | 8.75            | 50.96       | 46.55                 | 2,566.83                          | 1,690.39   | 3,058.37             | 2,998.66              | 59.71                   | 51.224            |                    |          |
| 2,600.00                    | 2,598.90            | 2,579.10            | 2,579.10            | 9.11            | 52.93       | 46.73                 | 2,566.83                          | 1,690.39   | 3,051.77             | 2,989.73              | 62.04                   | 49.191            |                    |          |
| 2,700.00                    | 2,698.26            | 2,678.46            | 2,678.46            | 9.46            | 54.91       | 46.94                 | 2,566.83                          | 1,690.39   | 3,044.00             | 2,979.63              | 64.37                   | 47.288            |                    |          |
| 2,800.00                    | 2,797.40            | 2,777.60            | 2,777.60            | 9.82            | 56.88       | 47.19                 | 2,566.83                          | 1,690.39   | 3,035.07             | 2,968.37              | 66.70                   | 45.502            |                    |          |
| 2,900.00                    | 2,896.30            | 2,876.50            | 2,876.50            | 10.18           | 58.85       | 47.46                 | 2,566.83                          | 1,690.39   | 3,024.99             | 2,955.96              | 69.03                   | 43.821            |                    |          |
| 3,000.00                    | 2,994.93            | 2,975.13            | 2,975.13            | 10.54           | 60.82       | 47.78                 | 2,566.83                          | 1,690.39   | 3,013.78             | 2,942.42              | 71.36                   | 42.235            |                    |          |
| 3,100.00                    | 3,093.26            | 3,073.46            | 3,073.46            | 10.90           | 62.78       | 48.12                 | 2,566.83                          | 1,690.39   | 3,001.46             | 2,927.78              | 73.68                   | 40.736            |                    |          |
| 3,195.07                    | 3,186.42            | 3,166.62            | 3,166.62            | 11.24           | 64.65       | 48.49                 | 2,566.83                          | 1,690.39   | 2,988.74             | 2,912.86              | 75.88                   | 39.385            |                    |          |
| 3,200.00                    | 3,191.25            | 3,171.45            | 3,171.45            | 11.26           | 64.74       | 48.50                 | 2,566.83                          | 1,690.39   | 2,988.06             | 2,912.06              | 76.00                   | 39.317            |                    |          |
| 3,300.00                    | 3,289.08            | 3,269.28            | 3,269.28            | 11.62           | 66.70       | 48.80                 | 2,566.83                          | 1,690.39   | 2,974.21             | 2,895.89              | 78.32                   | 37.976            |                    |          |
| 3,400.00                    | 3,386.91            | 3,367.11            | 3,367.11            | 11.98           | 68.66       | 49.10                 | 2,566.83                          | 1,690.39   | 2,960.44             | 2,879.80              | 80.64                   | 36.713            |                    |          |
| 3,500.00                    | 3,484.74            | 3,464.94            | 3,464.94            | 12.35           | 70.62       | 49.40                 | 2,566.83                          | 1,690.39   | 2,946.75             | 2,863.79              | 82.96                   | 35.519            |                    |          |
| 3,600.00                    | 3,582.58            | 3,562.78            | 3,562.78            | 12.72           | 72.58       | 49.70                 | 2,566.83                          | 1,690.39   | 2,933.15             | 2,847.86              | 85.29                   | 34.391            |                    |          |
| 3,700.00                    | 3,680.41            | 3,660.61            | 3,660.61            | 13.09           | 74.54       | 50.00                 | 2,566.83                          | 1,690.39   | 2,919.63             | 2,832.01              | 87.62                   | 33.322            |                    |          |
| 3,800.00                    | 3,778.24            | 3,758.44            | 3,758.44            | 13.46           | 76.50       | 50.31                 | 2,566.83                          | 1,690.39   | 2,906.19             | 2,816.24              | 89.95                   | 32.309            |                    |          |
| 3,900.00                    | 3,876.08            | 3,856.28            | 3,856.28            | 13.83           | 78.46       | 50.63                 | 2,566.83                          | 1,690.39   | 2,892.84             | 2,800.56              | 92.28                   | 31.348            |                    |          |
| 4,000.00                    | 3,973.91            | 3,954.11            | 3,954.11            | 14.21           | 80.43       | 50.94                 | 2,566.83                          | 1,690.39   | 2,879.57             | 2,784.96              | 94.62                   | 30.434            |                    |          |
| 4,100.00                    | 4,071.74            | 4,051.94            | 4,051.94            | 14.58           | 82.39       | 51.26                 | 2,566.83                          | 1,690.39   | 2,866.40             | 2,769.44              | 96.95                   | 29.565            |                    |          |
| 4,200.00                    | 4,169.57            | 4,149.77            | 4,149.77            | 14.96           | 84.35       | 51.58                 | 2,566.83                          | 1,690.39   | 2,853.31             | 2,754.02              | 99.29                   | 28.736            |                    |          |
| 4,300.00                    | 4,267.41            | 4,247.61            | 4,247.61            | 15.33           | 86.32       | 51.90                 | 2,566.83                          | 1,690.39   | 2,840.31             | 2,738.68              | 101.63                  | 27.947            |                    |          |
| 4,400.00                    | 4,365.24            | 4,345.44            | 4,345.44            | 15.71           | 88.29       | 52.23                 | 2,566.83                          | 1,690.39   | 2,827.41             | 2,723.44              | 103.97                  | 27.193            |                    |          |
| 4,500.00                    | 4,463.07            | 4,443.27            | 4,443.27            | 16.09           | 90.25       | 52.55                 | 2,566.83                          | 1,690.39   | 2,814.60             | 2,708.28              | 106.32                  | 26.474            |                    |          |
| 4,600.00                    | 4,560.90            | 4,541.10            | 4,541.10            | 16.47           | 92.22       | 52.89                 | 2,566.83                          | 1,690.39   | 2,801.88             | 2,693.22              | 108.66                  | 25.785            |                    |          |
| 4,700.00                    | 4,658.74            | 4,638.94            | 4,638.94            | 16.85           | 94.19       | 53.22                 | 2,566.83                          | 1,690.39   | 2,789.26             | 2,678.26              | 111.01                  | 25.127            |                    |          |
| 4,800.00                    | 4,756.57            | 4,736.77            | 4,736.77            | 17.23           | 96.16       | 53.56                 | 2,566.83                          | 1,690.39   | 2,776.74             | 2,663.39              | 113.35                  | 24.496            |                    |          |
| 4,900.00                    | 4,854.40            | 4,834.60            | 4,834.60            | 17.61           | 98.13       | 53.90                 | 2,566.83                          | 1,690.39   | 2,764.31             | 2,648.61              | 115.70                  | 23.892            |                    |          |
| 5,000.00                    | 4,952.23            | 4,932.43            | 4,932.43            | 17.99           | 100.10      | 54.24                 | 2,566.83                          | 1,690.39   | 2,751.99             | 2,633.94              | 118.05                  | 23.312            |                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft  |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|----------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 10.00 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |          |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |          |
| 5,100.00                    | 5,050.07            | 5,030.27            | 5,030.27            | 18.37           | 102.07      | 54.59                 | 2,566.83                          | 1,690.39   | 2,739.76             | 2,619.36              | 120.40                  | 22.755            |                    |          |
| 5,200.00                    | 5,147.90            | 5,128.10            | 5,128.10            | 18.75           | 104.04      | 54.94                 | 2,566.83                          | 1,690.39   | 2,727.64             | 2,604.89              | 122.75                  | 22.221            |                    |          |
| 5,300.00                    | 5,245.73            | 5,225.93            | 5,225.93            | 19.14           | 106.01      | 55.29                 | 2,566.83                          | 1,690.39   | 2,715.62             | 2,590.52              | 125.10                  | 21.707            |                    |          |
| 5,400.00                    | 5,343.56            | 5,323.76            | 5,323.76            | 19.52           | 107.98      | 55.64                 | 2,566.83                          | 1,690.39   | 2,703.71             | 2,576.26              | 127.46                  | 21.213            |                    |          |
| 5,500.00                    | 5,441.40            | 5,421.60            | 5,421.60            | 19.90           | 109.95      | 56.00                 | 2,566.83                          | 1,690.39   | 2,691.91             | 2,562.10              | 129.81                  | 20.737            |                    |          |
| 5,600.00                    | 5,539.23            | 5,519.43            | 5,519.43            | 20.29           | 111.92      | 56.36                 | 2,566.83                          | 1,690.39   | 2,680.21             | 2,548.04              | 132.16                  | 20.280            |                    |          |
| 5,700.00                    | 5,637.06            | 5,617.26            | 5,617.26            | 20.67           | 113.89      | 56.73                 | 2,566.83                          | 1,690.39   | 2,668.62             | 2,534.10              | 134.52                  | 19.838            |                    |          |
| 5,800.00                    | 5,734.90            | 5,715.10            | 5,715.10            | 21.05           | 115.86      | 57.10                 | 2,566.83                          | 1,690.39   | 2,657.14             | 2,520.27              | 136.87                  | 19.413            |                    |          |
| 5,900.00                    | 5,832.73            | 5,812.93            | 5,812.93            | 21.44           | 117.84      | 57.47                 | 2,566.83                          | 1,690.39   | 2,645.77             | 2,506.54              | 139.23                  | 19.003            |                    |          |
| 6,000.00                    | 5,930.56            | 5,910.76            | 5,910.76            | 21.83           | 119.81      | 57.84                 | 2,566.83                          | 1,690.39   | 2,634.52             | 2,492.94              | 141.59                  | 18.607            |                    |          |
| 6,100.00                    | 6,028.39            | 6,008.59            | 6,008.59            | 22.21           | 121.78      | 58.22                 | 2,566.83                          | 1,690.39   | 2,623.38             | 2,479.44              | 143.94                  | 18.225            |                    |          |
| 6,200.00                    | 6,126.23            | 6,106.43            | 6,106.43            | 22.60           | 123.75      | 58.60                 | 2,566.83                          | 1,690.39   | 2,612.36             | 2,466.06              | 146.30                  | 17.856            |                    |          |
| 6,300.00                    | 6,224.06            | 6,204.26            | 6,204.26            | 22.98           | 125.73      | 58.98                 | 2,566.83                          | 1,690.39   | 2,601.46             | 2,452.80              | 148.66                  | 17.499            |                    |          |
| 6,400.00                    | 6,321.89            | 6,302.09            | 6,302.09            | 23.37           | 127.70      | 59.37                 | 2,566.83                          | 1,690.39   | 2,590.68             | 2,439.66              | 151.02                  | 17.155            |                    |          |
| 6,500.00                    | 6,419.72            | 6,399.92            | 6,399.92            | 23.76           | 129.67      | 59.76                 | 2,566.83                          | 1,690.39   | 2,580.02             | 2,426.64              | 153.38                  | 16.821            |                    |          |
| 6,600.00                    | 6,517.56            | 6,497.76            | 6,497.76            | 24.14           | 131.65      | 60.15                 | 2,566.83                          | 1,690.39   | 2,569.48             | 2,413.74              | 155.74                  | 16.499            |                    |          |
| 6,700.00                    | 6,615.39            | 6,595.59            | 6,595.59            | 24.53           | 133.62      | 60.54                 | 2,566.83                          | 1,690.39   | 2,559.06             | 2,400.96              | 158.10                  | 16.186            |                    |          |
| 6,800.00                    | 6,713.22            | 6,693.42            | 6,693.42            | 24.92           | 135.60      | 60.94                 | 2,566.83                          | 1,690.39   | 2,548.77             | 2,388.31              | 160.46                  | 15.884            |                    |          |
| 6,900.00                    | 6,811.05            | 6,791.25            | 6,791.25            | 25.30           | 137.57      | 61.35                 | 2,566.83                          | 1,690.39   | 2,538.61             | 2,375.79              | 162.82                  | 15.591            |                    |          |
| 7,000.00                    | 6,908.89            | 6,889.09            | 6,889.09            | 25.69           | 139.54      | 61.75                 | 2,566.83                          | 1,690.39   | 2,528.58             | 2,363.40              | 165.18                  | 15.308            |                    |          |
| 7,100.00                    | 7,006.72            | 6,986.92            | 6,986.92            | 26.08           | 141.52      | 62.16                 | 2,566.83                          | 1,690.39   | 2,518.68             | 2,351.13              | 167.55                  | 15.033            |                    |          |
| 7,200.00                    | 7,104.55            | 7,084.75            | 7,084.75            | 26.47           | 143.49      | 62.57                 | 2,566.83                          | 1,690.39   | 2,508.91             | 2,339.00              | 169.91                  | 14.766            |                    |          |
| 7,216.87                    | 7,121.05            | 7,101.25            | 7,101.25            | 26.53           | 143.83      | 62.64                 | 2,566.83                          | 1,690.39   | 2,507.27             | 2,336.96              | 170.31                  | 14.722            |                    |          |
| 7,300.00                    | 7,202.57            | 7,182.77            | 7,182.77            | 26.85           | 145.47      | 62.86                 | 2,566.83                          | 1,690.39   | 2,499.68             | 2,327.40              | 172.27                  | 14.510            |                    |          |
| 7,400.00                    | 7,301.06            | 7,281.26            | 7,281.26            | 27.23           | 147.46      | 63.11                 | 2,566.83                          | 1,690.39   | 2,491.73             | 2,317.09              | 174.64                  | 14.267            |                    |          |
| 7,500.00                    | 7,399.97            | 7,380.17            | 7,380.17            | 27.61           | 149.46      | 63.22                 | 2,566.83                          | 1,690.39   | 2,485.05             | 2,308.03              | 177.02                  | 14.038            |                    |          |
| 7,600.00                    | 7,499.23            | 7,479.43            | 7,479.43            | 27.98           | 151.46      | 63.49                 | 2,566.83                          | 1,690.39   | 2,479.60             | 2,300.21              | 179.39                  | 13.822            |                    |          |
| 7,700.00                    | 7,598.77            | 7,578.97            | 7,578.97            | 28.34           | 153.47      | 63.63                 | 2,566.83                          | 1,690.39   | 2,475.35             | 2,293.58              | 181.76                  | 13.619            |                    |          |
| 7,800.00                    | 7,698.53            | 7,678.73            | 7,678.73            | 28.70           | 155.48      | 63.73                 | 2,566.83                          | 1,690.39   | 2,472.29             | 2,288.15              | 184.13                  | 13.427            |                    |          |
| 7,900.00                    | 7,798.44            | 7,778.64            | 7,778.64            | 29.05           | 157.50      | 63.80                 | 2,566.83                          | 1,690.39   | 2,470.39             | 2,283.89              | 186.50                  | 13.246            |                    |          |
| 8,000.00                    | 7,898.42            | 7,878.62            | 7,878.62            | 29.39           | 159.52      | 63.82                 | 2,566.83                          | 1,690.39   | 2,469.66             | 2,280.79              | 188.87                  | 13.076            |                    |          |
| 8,013.58                    | 7,912.00            | 7,892.20            | 7,892.20            | 29.43           | 159.79      | 51.04                 | 2,566.83                          | 1,690.39   | 2,469.65             | 2,280.46              | 189.19                  | 13.054            |                    |          |
| 8,100.00                    | 7,998.42            | 7,978.62            | 7,978.62            | 29.73           | 161.54      | 51.04                 | 2,566.83                          | 1,690.39   | 2,469.65             | 2,278.42              | 191.22                  | 12.915            |                    |          |
| 8,200.00                    | 8,098.42            | 8,078.62            | 8,078.62            | 30.07           | 163.56      | 51.04                 | 2,566.83                          | 1,690.39   | 2,469.65             | 2,276.06              | 193.58                  | 12.757            |                    |          |
| 8,300.00                    | 8,198.42            | 8,178.62            | 8,178.62            | 30.41           | 165.58      | 51.04                 | 2,566.83                          | 1,690.39   | 2,469.65             | 2,273.70              | 195.95                  | 12.604            |                    |          |
| 8,363.62                    | 8,262.04            | 8,242.24            | 8,242.24            | 30.62           | 166.86      | 51.04                 | 2,566.83                          | 1,690.39   | 2,469.65             | 2,272.20              | 197.45                  | 12.508            |                    |          |
| 8,400.00                    | 8,298.40            | 8,278.60            | 8,278.60            | 30.75           | 167.60      | -38.69                | 2,566.83                          | 1,690.39   | 2,468.74             | 2,270.44              | 198.30                  | 12.449            |                    |          |
| 8,450.00                    | 8,348.10            | 8,328.30            | 8,328.30            | 30.91           | 168.60      | -39.03                | 2,566.83                          | 1,690.39   | 2,464.57             | 2,265.10              | 199.47                  | 12.356            |                    |          |
| 8,500.00                    | 8,397.14            | 8,377.34            | 8,377.34            | 31.07           | 169.59      | -39.66                | 2,566.83                          | 1,690.39   | 2,457.04             | 2,256.42              | 200.62                  | 12.247            |                    |          |
| 8,550.00                    | 8,445.15            | 8,425.35            | 8,425.35            | 31.23           | 170.56      | -40.57                | 2,566.83                          | 1,690.39   | 2,446.24             | 2,244.49              | 201.75                  | 12.125            |                    |          |
| 8,600.00                    | 8,491.77            | 8,471.97            | 8,471.97            | 31.38           | 171.50      | -41.80                | 2,566.83                          | 1,690.39   | 2,432.27             | 2,229.42              | 202.85                  | 11.990            |                    |          |
| 8,650.00                    | 8,536.65            | 8,516.85            | 8,516.85            | 31.52           | 172.41      | -43.36                | 2,566.83                          | 1,690.39   | 2,415.28             | 2,211.37              | 203.91                  | 11.845            |                    |          |
| 8,700.00                    | 8,579.43            | 8,559.63            | 8,559.63            | 31.66           | 173.27      | -45.28                | 2,566.83                          | 1,690.39   | 2,395.43             | 2,190.51              | 204.92                  | 11.690            |                    |          |
| 8,750.00                    | 8,619.80            | 8,600.00            | 8,600.00            | 31.80           | 174.09      | -47.56                | 2,566.83                          | 1,690.39   | 2,372.94             | 2,167.07              | 205.88                  | 11.526            |                    |          |
| 8,800.00                    | 8,657.44            | 8,637.64            | 8,637.64            | 31.93           | 174.85      | -50.25                | 2,566.83                          | 1,690.39   | 2,348.04             | 2,141.27              | 206.77                  | 11.356            |                    |          |
| 8,850.00                    | 8,692.08            | 8,672.28            | 8,672.28            | 32.06           | 175.55      | -53.35                | 2,566.83                          | 1,690.39   | 2,320.97             | 2,113.37              | 207.60                  | 11.180            |                    |          |
| 8,900.00                    | 8,723.44            | 8,703.64            | 8,703.64            | 32.19           | 176.18      | -56.88                | 2,566.83                          | 1,690.39   | 2,292.02             | 2,083.65              | 208.37                  | 11.000            |                    |          |
| 8,950.00                    | 8,751.29            | 8,731.49            | 8,731.49            | 32.34           | 176.75      | -60.81                | 2,566.83                          | 1,690.39   | 2,261.47             | 2,052.42              | 209.06                  | 10.818            |                    |          |
| 9,000.00                    | 8,775.42            | 8,755.62            | 8,755.62            | 32.50           | 177.23      | -65.10                | 2,566.83                          | 1,690.39   | 2,229.64             | 2,019.97              | 209.67                  | 10.634            |                    |          |
| 9,050.00                    | 8,795.64            | 8,775.84            | 8,775.84            | 32.67           | 177.64      | -69.70                | 2,566.83                          | 1,690.39   | 2,196.84             | 1,986.63              | 210.21                  | 10.451            |                    |          |
| 9,100.00                    | 8,811.80            | 8,792.00            | 8,792.00            | 32.87           | 177.97      | -74.49                | 2,566.83                          | 1,690.39   | 2,163.39             | 1,952.71              | 210.68                  | 10.269            |                    |          |
| 9,150.00                    | 8,823.77            | 8,803.97            | 8,803.97            | 33.10           | 178.21      | -79.36                | 2,566.83                          | 1,690.39   | 2,129.62             | 1,918.55              | 211.06                  | 10.090            |                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Site Error: | 0.00 ft  |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|----------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Well Error: | 10.00 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                    | Warning  |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor  |          |
| 9,200.00                    | 8,831.47            | 8,811.67            | 8,811.67            | 33.34           | 178.36      | -84.17                | 2,566.83                          | 1,690.39   | 2,095.84             | 1,884.47              | 211.37                  | 9.915              |          |
| 9,250.00                    | 8,834.84            | 8,815.04            | 8,815.04            | 33.60           | 178.43      | -88.79                | 2,566.83                          | 1,690.39   | 2,062.38             | 1,850.77              | 211.61                  | 9.746              |          |
| 9,263.62                    | 8,835.00            | 8,815.20            | 8,815.20            | 33.67           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,053.35             | 1,841.69              | 211.66                  | 9.701              |          |
| 9,300.00                    | 8,835.00            | 8,815.20            | 8,815.20            | 33.88           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,029.50             | 1,817.71              | 211.79                  | 9.582              |          |
| 9,400.00                    | 8,835.00            | 8,815.20            | 8,815.20            | 34.53           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,965.91             | 1,753.67              | 212.25                  | 9.262              |          |
| 9,500.00                    | 8,835.00            | 8,815.20            | 8,815.20            | 35.30           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,905.46             | 1,692.63              | 212.83                  | 8.953              |          |
| 9,600.00                    | 8,835.00            | 8,815.20            | 8,815.20            | 36.17           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,848.44             | 1,634.88              | 213.55                  | 8.656              |          |
| 9,700.00                    | 8,835.00            | 8,815.20            | 8,815.20            | 37.13           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,795.18             | 1,580.76              | 214.42                  | 8.372              |          |
| 9,800.00                    | 8,835.00            | 8,815.20            | 8,815.20            | 38.18           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,746.03             | 1,530.59              | 215.44                  | 8.104              |          |
| 9,900.00                    | 8,835.00            | 8,815.20            | 8,815.20            | 39.31           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,701.34             | 1,484.73              | 216.61                  | 7.855              |          |
| 10,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 40.51           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,661.48             | 1,443.56              | 217.91                  | 7.625              |          |
| 10,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 41.78           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,626.79             | 1,407.45              | 219.34                  | 7.417              |          |
| 10,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 43.10           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,597.62             | 1,376.75              | 220.87                  | 7.233              |          |
| 10,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 44.49           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,574.28             | 1,351.81              | 222.47                  | 7.076              |          |
| 10,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 45.92           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,557.01             | 1,332.91              | 224.10                  | 6.948              |          |
| 10,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 47.39           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,546.04             | 1,320.30              | 225.74                  | 6.849              |          |
| 10,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 48.91           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,541.49             | 1,314.14              | 227.34                  | 6.780              |          |
| 10,620.27                   | 8,835.00            | 8,815.20            | 8,815.20            | 49.23           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,541.35             | 1,313.69              | 227.66                  | 6.770 CC, ES       |          |
| 10,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 50.47           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,543.41             | 1,314.54              | 228.87                  | 6.744              |          |
| 10,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 52.06           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,551.80             | 1,321.49              | 230.30                  | 6.738 SF           |          |
| 10,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 53.68           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,566.53             | 1,334.92              | 231.61                  | 6.764              |          |
| 11,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 55.32           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,587.44             | 1,354.66              | 232.78                  | 6.820              |          |
| 11,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 57.00           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,614.28             | 1,380.49              | 233.79                  | 6.905              |          |
| 11,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 58.70           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,646.77             | 1,412.11              | 234.66                  | 7.018              |          |
| 11,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 60.41           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,684.58             | 1,449.20              | 235.38                  | 7.157              |          |
| 11,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 62.15           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,727.36             | 1,491.39              | 235.96                  | 7.320              |          |
| 11,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 63.91           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,774.74             | 1,538.32              | 236.42                  | 7.507              |          |
| 11,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 65.69           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,826.38             | 1,589.62              | 236.76                  | 7.714              |          |
| 11,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 67.47           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,881.91             | 1,644.92              | 237.00                  | 7.941              |          |
| 11,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 69.28           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,941.02             | 1,703.86              | 237.15                  | 8.185              |          |
| 11,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 71.09           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,003.37             | 1,766.14              | 237.23                  | 8.445              |          |
| 12,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 72.92           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,068.68             | 1,831.43              | 237.25                  | 8.719              |          |
| 12,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 74.76           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,136.68             | 1,899.45              | 237.22                  | 9.007              |          |
| 12,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 76.61           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,207.11             | 1,969.96              | 237.15                  | 9.307              |          |
| 12,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 78.47           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,279.75             | 2,042.70              | 237.05                  | 9.617              |          |
| 12,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 80.34           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,354.41             | 2,117.48              | 236.92                  | 9.938              |          |
| 12,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 82.22           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,430.88             | 2,194.11              | 236.77                  | 10.267             |          |
| 12,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 84.11           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,509.01             | 2,272.40              | 236.61                  | 10.604             |          |
| 12,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 86.00           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,588.64             | 2,352.21              | 236.43                  | 10.949             |          |
| 12,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 87.90           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,669.65             | 2,433.39              | 236.25                  | 11.300             |          |
| 12,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 89.81           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,751.90             | 2,515.83              | 236.07                  | 11.657             |          |
| 13,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 91.72           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,835.30             | 2,599.42              | 235.88                  | 12.020             |          |
| 13,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 93.64           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,919.73             | 2,684.04              | 235.69                  | 12.388             |          |
| 13,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 95.56           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,005.13             | 2,769.63              | 235.50                  | 12.761             |          |
| 13,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 97.49           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,091.40             | 2,856.08              | 235.32                  | 13.137             |          |
| 13,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 99.42           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,178.47             | 2,943.34              | 235.13                  | 13.518             |          |
| 13,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 101.36          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,266.29             | 3,031.33              | 234.96                  | 13.902             |          |
| 13,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 103.30          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,354.79             | 3,120.00              | 234.78                  | 14.289             |          |
| 13,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 105.25          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,443.91             | 3,209.30              | 234.61                  | 14.679             |          |
| 13,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 107.20          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,533.62             | 3,299.17              | 234.45                  | 15.072             |          |
| 13,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 109.15          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,623.87             | 3,389.58              | 234.29                  | 15.467             |          |
| 14,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 111.10          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,714.62             | 3,480.48              | 234.14                  | 15.865             |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft  |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|----------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 10.00 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |          |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |          |
| 14,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 113.06          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,805.83             | 3,571.84              | 233.99                  | 16.265            |                    |          |
| 14,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 115.03          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,897.47             | 3,663.62              | 233.85                  | 16.667            |                    |          |
| 14,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 116.99          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,989.51             | 3,755.80              | 233.71                  | 17.070            |                    |          |
| 14,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 118.96          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,081.93             | 3,848.35              | 233.58                  | 17.476            |                    |          |
| 14,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 120.93          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,174.70             | 3,941.25              | 233.45                  | 17.883            |                    |          |
| 14,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 122.90          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,267.79             | 4,034.46              | 233.33                  | 18.291            |                    |          |
| 14,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 124.88          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,361.19             | 4,127.98              | 233.21                  | 18.700            |                    |          |
| 14,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 126.86          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,454.88             | 4,221.78              | 233.10                  | 19.111            |                    |          |
| 14,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 128.84          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,548.83             | 4,315.84              | 233.00                  | 19.523            |                    |          |
| 15,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 130.82          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,643.04             | 4,410.15              | 232.90                  | 19.936            |                    |          |
| 15,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 132.80          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,737.49             | 4,504.69              | 232.80                  | 20.350            |                    |          |
| 15,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 134.79          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,832.16             | 4,599.45              | 232.71                  | 20.765            |                    |          |
| 15,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 136.78          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,927.04             | 4,694.41              | 232.62                  | 21.181            |                    |          |
| 15,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 138.76          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,022.11             | 4,789.58              | 232.54                  | 21.597            |                    |          |
| 15,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 140.76          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,117.38             | 4,884.92              | 232.46                  | 22.014            |                    |          |
| 15,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 142.75          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,212.82             | 4,980.44              | 232.38                  | 22.432            |                    |          |
| 15,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 144.74          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,308.43             | 5,076.12              | 232.31                  | 22.850            |                    |          |
| 15,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 146.74          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,404.20             | 5,171.96              | 232.25                  | 23.269            |                    |          |
| 15,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 148.73          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,500.12             | 5,267.94              | 232.18                  | 23.689            |                    |          |
| 16,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 150.73          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,596.19             | 5,364.06              | 232.12                  | 24.109            |                    |          |
| 16,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 152.73          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,692.39             | 5,460.32              | 232.07                  | 24.529            |                    |          |
| 16,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 154.73          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,788.71             | 5,556.70              | 232.01                  | 24.950            |                    |          |
| 16,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 156.73          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,885.16             | 5,653.20              | 231.96                  | 25.371            |                    |          |
| 16,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 158.74          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,981.73             | 5,749.81              | 231.92                  | 25.792            |                    |          |
| 16,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 160.74          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,078.41             | 5,846.53              | 231.87                  | 26.214            |                    |          |
| 16,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 162.74          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,175.19             | 5,943.36              | 231.83                  | 26.636            |                    |          |
| 16,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 164.75          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,272.08             | 6,040.28              | 231.80                  | 27.059            |                    |          |
| 16,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 166.76          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,369.06             | 6,137.29              | 231.76                  | 27.481            |                    |          |
| 16,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 168.77          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,466.13             | 6,234.40              | 231.73                  | 27.904            |                    |          |
| 17,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 170.77          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,563.29             | 6,331.59              | 231.70                  | 28.327            |                    |          |
| 17,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 172.78          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,660.53             | 6,428.86              | 231.67                  | 28.750            |                    |          |
| 17,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 174.79          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,757.86             | 6,526.21              | 231.65                  | 29.173            |                    |          |
| 17,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 176.81          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,855.26             | 6,623.63              | 231.63                  | 29.596            |                    |          |
| 17,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 178.82          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,952.74             | 6,721.13              | 231.61                  | 30.019            |                    |          |
| 17,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 180.83          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,050.28             | 6,818.69              | 231.59                  | 30.443            |                    |          |
| 17,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 182.84          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,147.90             | 6,916.32              | 231.58                  | 30.866            |                    |          |
| 17,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 184.86          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,245.58             | 7,014.01              | 231.57                  | 31.289            |                    |          |
| 17,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 186.87          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,343.32             | 7,111.76              | 231.56                  | 31.713            |                    |          |
| 17,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 188.89          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,441.12             | 7,209.57              | 231.55                  | 32.136            |                    |          |
| 18,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 190.91          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,538.98             | 7,307.44              | 231.54                  | 32.560            |                    |          |
| 18,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 192.92          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,636.90             | 7,405.36              | 231.54                  | 32.983            |                    |          |
| 18,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 194.94          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,734.87             | 7,503.33              | 231.54                  | 33.407            |                    |          |
| 18,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 196.96          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,832.88             | 7,601.35              | 231.54                  | 33.830            |                    |          |
| 18,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 198.98          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,930.95             | 7,699.42              | 231.54                  | 34.253            |                    |          |
| 18,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 201.00          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,029.07             | 7,797.53              | 231.54                  | 34.677            |                    |          |
| 18,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 203.02          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,127.23             | 7,895.69              | 231.55                  | 35.100            |                    |          |
| 18,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 205.04          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,225.44             | 7,993.89              | 231.55                  | 35.523            |                    |          |
| 18,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 207.06          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,323.69             | 8,092.13              | 231.56                  | 35.946            |                    |          |
| 18,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 209.08          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,421.98             | 8,190.41              | 231.57                  | 36.369            |                    |          |
| 19,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 211.10          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,520.31             | 8,288.73              | 231.59                  | 36.791            |                    |          |
| 19,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 213.12          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,618.68             | 8,387.08              | 231.60                  | 37.214            |                    |          |
| 19,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 215.15          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,717.09             | 8,485.47              | 231.61                  | 37.636            |                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b>   |                        | Sec 14-T21S-R27E - Allied State Com 1 (Active) - Wellbore #1 - Wellbore #1 |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 0.00 ft  |
|------------------------|------------------------|----------------------------------------------------------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|----------|
| Survey Program:        |                        | 10-INC-ONLY                                                                |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 10.00 ft |
| Reference              |                        | Offset                                                                     |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                           | Warning  |
| Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Measured Depth<br>(ft)                                                     | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |          |
| 19,308.27              | 8,835.00               | 8,815.20                                                                   | 8,815.20               | 217.34            | 178.44         | -90.00                      | 2,566.83                                | 1,690.39      | 8,823.67                   | 8,592.04                    | 231.63                        | 38.093                    |          |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Site Error: | 0.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                    | Warning |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor  |         |
| 0.00                        | 0.00                | 0.00                | 0.00                | 0.50            | 0.50        | 165.02                | -1,408.43                         | 376.84     | 1,458.02             |                       |                         |                    |         |
| 100.00                      | 100.00              | 89.20               | 89.20               | 0.52            | 1.29        | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,456.17              | 1.80                    | 807.758            |         |
| 200.00                      | 200.00              | 189.20              | 189.20              | 0.70            | 2.73        | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,454.54              | 3.43                    | 424.811            |         |
| 300.00                      | 300.00              | 289.20              | 289.20              | 0.99            | 4.21        | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,452.78              | 5.20                    | 280.459            |         |
| 400.00                      | 400.00              | 389.20              | 389.20              | 1.31            | 5.70        | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,450.97              | 7.01                    | 207.982            |         |
| 500.00                      | 500.00              | 489.20              | 489.20              | 1.65            | 7.19        | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,449.14              | 8.84                    | 164.926            |         |
| 600.00                      | 600.00              | 589.20              | 589.20              | 1.99            | 8.69        | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,447.30              | 10.68                   | 136.523            |         |
| 700.00                      | 700.00              | 689.20              | 689.20              | 2.34            | 10.18       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,445.45              | 12.52                   | 116.418            |         |
| 800.00                      | 800.00              | 789.20              | 789.20              | 2.69            | 11.68       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,443.60              | 14.37                   | 101.453            |         |
| 900.00                      | 900.00              | 889.20              | 889.20              | 3.04            | 13.18       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,441.76              | 16.22                   | 89.886             |         |
| 1,000.00                    | 1,000.00            | 989.20              | 989.20              | 3.40            | 14.67       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,439.90              | 18.07                   | 80.680             |         |
| 1,100.00                    | 1,100.00            | 1,089.20            | 1,089.20            | 3.75            | 16.17       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,438.05              | 19.92                   | 73.181             |         |
| 1,200.00                    | 1,200.00            | 1,189.20            | 1,189.20            | 4.11            | 17.67       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,436.20              | 21.78                   | 66.955             |         |
| 1,300.00                    | 1,300.00            | 1,289.20            | 1,289.20            | 4.46            | 19.16       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,434.35              | 23.63                   | 61.704             |         |
| 1,400.00                    | 1,400.00            | 1,389.20            | 1,389.20            | 4.82            | 20.66       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,432.49              | 25.48                   | 57.216             |         |
| 1,500.00                    | 1,500.00            | 1,489.20            | 1,489.20            | 5.18            | 22.16       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,430.64              | 27.34                   | 53.335             |         |
| 1,600.00                    | 1,600.00            | 1,589.20            | 1,589.20            | 5.53            | 23.66       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,428.79              | 29.19                   | 49.947             |         |
| 1,700.00                    | 1,700.00            | 1,689.20            | 1,689.20            | 5.89            | 25.15       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,426.93              | 31.04                   | 46.964             |         |
| 1,800.00                    | 1,800.00            | 1,789.20            | 1,789.20            | 6.25            | 26.65       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,425.08              | 32.90                   | 44.316             |         |
| 1,900.00                    | 1,900.00            | 1,889.20            | 1,889.20            | 6.61            | 28.15       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,423.22              | 34.75                   | 41.951             |         |
| 2,000.00                    | 2,000.00            | 1,989.20            | 1,989.20            | 6.96            | 29.65       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,421.37              | 36.61                   | 39.826 CC          |         |
| 2,100.00                    | 2,099.99            | 2,089.19            | 2,089.19            | 7.32            | 31.14       | 177.80                | -1,408.43                         | 376.84     | 1,458.85             | 1,420.38              | 38.46                   | 37.928 ES          |         |
| 2,200.00                    | 2,199.96            | 2,189.16            | 2,189.16            | 7.68            | 32.64       | 177.80                | -1,408.43                         | 376.84     | 1,461.46             | 1,421.15              | 40.32                   | 36.249             |         |
| 2,300.00                    | 2,299.86            | 2,289.06            | 2,289.06            | 8.04            | 34.14       | 177.81                | -1,408.43                         | 376.84     | 1,465.82             | 1,423.65              | 42.17                   | 34.759             |         |
| 2,400.00                    | 2,399.68            | 2,388.88            | 2,388.88            | 8.39            | 35.63       | 177.82                | -1,408.43                         | 376.84     | 1,471.92             | 1,427.90              | 44.02                   | 33.435             |         |
| 2,500.00                    | 2,499.37            | 2,488.57            | 2,488.57            | 8.75            | 37.12       | 177.82                | -1,408.43                         | 376.84     | 1,479.76             | 1,433.89              | 45.87                   | 32.258             |         |
| 2,600.00                    | 2,598.90            | 2,588.10            | 2,588.10            | 9.11            | 38.61       | 177.84                | -1,408.43                         | 376.84     | 1,489.34             | 1,441.62              | 47.72                   | 31.210             |         |
| 2,700.00                    | 2,698.26            | 2,687.46            | 2,687.46            | 9.46            | 40.10       | 177.85                | -1,408.43                         | 376.84     | 1,500.65             | 1,451.09              | 49.57                   | 30.276             |         |
| 2,800.00                    | 2,797.40            | 2,786.60            | 2,786.60            | 9.82            | 41.59       | 177.86                | -1,408.43                         | 376.84     | 1,513.70             | 1,462.29              | 51.41                   | 29.446             |         |
| 2,900.00                    | 2,896.30            | 2,885.50            | 2,885.50            | 10.18           | 43.07       | 177.88                | -1,408.43                         | 376.84     | 1,528.47             | 1,475.22              | 53.24                   | 28.707             |         |
| 3,000.00                    | 2,994.93            | 2,984.13            | 2,984.13            | 10.54           | 44.54       | 177.89                | -1,408.43                         | 376.84     | 1,544.96             | 1,489.88              | 55.08                   | 28.051             |         |
| 3,100.00                    | 3,093.26            | 3,082.46            | 3,082.46            | 10.90           | 46.02       | 177.91                | -1,408.43                         | 376.84     | 1,563.17             | 1,506.26              | 56.91                   | 27.469             |         |
| 3,195.07                    | 3,186.42            | 3,175.62            | 3,175.62            | 11.24           | 47.41       | 177.93                | -1,408.43                         | 376.84     | 1,582.07             | 1,523.43              | 58.64                   | 26.979             |         |
| 3,200.00                    | 3,191.25            | 3,180.45            | 3,180.45            | 11.26           | 47.48       | 177.93                | -1,408.43                         | 376.84     | 1,583.09             | 1,524.36              | 58.73                   | 26.955             |         |
| 3,300.00                    | 3,289.08            | 3,278.28            | 3,278.28            | 11.62           | 48.95       | 177.96                | -1,408.43                         | 376.84     | 1,603.79             | 1,543.23              | 60.55                   | 26.486             |         |
| 3,400.00                    | 3,386.91            | 3,376.11            | 3,376.11            | 11.98           | 50.41       | 177.98                | -1,408.43                         | 376.84     | 1,624.48             | 1,562.11              | 62.38                   | 26.043             |         |
| 3,500.00                    | 3,484.74            | 3,473.94            | 3,473.94            | 12.35           | 51.88       | 178.01                | -1,408.43                         | 376.84     | 1,645.18             | 1,580.98              | 64.20                   | 25.626             |         |
| 3,600.00                    | 3,582.58            | 3,571.78            | 3,571.78            | 12.72           | 53.35       | 178.03                | -1,408.43                         | 376.84     | 1,665.87             | 1,599.85              | 66.03                   | 25.231             |         |
| 3,700.00                    | 3,680.41            | 3,669.61            | 3,669.61            | 13.09           | 54.81       | 178.06                | -1,408.43                         | 376.84     | 1,686.57             | 1,618.71              | 67.85                   | 24.857             |         |
| 3,800.00                    | 3,778.24            | 3,767.44            | 3,767.44            | 13.46           | 56.28       | 178.08                | -1,408.43                         | 376.84     | 1,707.26             | 1,637.58              | 69.68                   | 24.502             |         |
| 3,900.00                    | 3,876.08            | 3,865.28            | 3,865.28            | 13.83           | 57.74       | 178.10                | -1,408.43                         | 376.84     | 1,727.96             | 1,656.45              | 71.51                   | 24.164             |         |
| 4,000.00                    | 3,973.91            | 3,963.11            | 3,963.11            | 14.21           | 59.21       | 178.13                | -1,408.43                         | 376.84     | 1,748.65             | 1,675.32              | 73.34                   | 23.844             |         |
| 4,100.00                    | 4,071.74            | 4,060.94            | 4,060.94            | 14.58           | 60.67       | 178.15                | -1,408.43                         | 376.84     | 1,769.35             | 1,694.18              | 75.17                   | 23.539             |         |
| 4,200.00                    | 4,169.57            | 4,158.77            | 4,158.77            | 14.96           | 62.14       | 178.17                | -1,408.43                         | 376.84     | 1,790.05             | 1,713.05              | 77.00                   | 23.248             |         |
| 4,300.00                    | 4,267.41            | 4,256.61            | 4,256.61            | 15.33           | 63.60       | 178.19                | -1,408.43                         | 376.84     | 1,810.74             | 1,731.91              | 78.83                   | 22.970             |         |
| 4,400.00                    | 4,365.24            | 4,354.44            | 4,354.44            | 15.71           | 65.07       | 178.21                | -1,408.43                         | 376.84     | 1,831.44             | 1,750.78              | 80.66                   | 22.705             |         |
| 4,500.00                    | 4,463.07            | 4,452.27            | 4,452.27            | 16.09           | 66.53       | 178.23                | -1,408.43                         | 376.84     | 1,852.14             | 1,769.64              | 82.50                   | 22.451             |         |
| 4,600.00                    | 4,560.90            | 4,550.10            | 4,550.10            | 16.47           | 68.00       | 178.25                | -1,408.43                         | 376.84     | 1,872.84             | 1,788.51              | 84.33                   | 22.208             |         |
| 4,700.00                    | 4,658.74            | 4,647.94            | 4,647.94            | 16.85           | 69.46       | 178.27                | -1,408.43                         | 376.84     | 1,893.53             | 1,807.37              | 86.17                   | 21.976             |         |
| 4,800.00                    | 4,756.57            | 4,745.77            | 4,745.77            | 17.23           | 70.93       | 178.29                | -1,408.43                         | 376.84     | 1,914.23             | 1,826.23              | 88.00                   | 21.753             |         |
| 4,900.00                    | 4,854.40            | 4,843.60            | 4,843.60            | 17.61           | 72.39       | 178.31                | -1,408.43                         | 376.84     | 1,934.93             | 1,845.09              | 89.84                   | 21.539             |         |
| 5,000.00                    | 4,952.23            | 4,941.43            | 4,941.43            | 17.99           | 73.86       | 178.32                | -1,408.43                         | 376.84     | 1,955.63             | 1,863.96              | 91.67                   | 21.333             |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                    | 5,050.07            | 5,039.27            | 5,039.27            | 18.37           | 75.32       | 178.34                | -1,408.43                         | 376.84     | 1,976.33             | 1,882.82              | 93.51                   | 21.135            |                    |         |
| 5,200.00                    | 5,147.90            | 5,137.10            | 5,137.10            | 18.75           | 76.79       | 178.36                | -1,408.43                         | 376.84     | 1,997.03             | 1,901.68              | 95.34                   | 20.945            |                    |         |
| 5,300.00                    | 5,245.73            | 5,234.93            | 5,234.93            | 19.14           | 78.25       | 178.38                | -1,408.43                         | 376.84     | 2,017.72             | 1,920.54              | 97.18                   | 20.762            |                    |         |
| 5,400.00                    | 5,343.56            | 5,332.76            | 5,332.76            | 19.52           | 79.72       | 178.39                | -1,408.43                         | 376.84     | 2,038.42             | 1,939.40              | 99.02                   | 20.586            |                    |         |
| 5,500.00                    | 5,441.40            | 5,430.60            | 5,430.60            | 19.90           | 81.18       | 178.41                | -1,408.43                         | 376.84     | 2,059.12             | 1,958.27              | 100.86                  | 20.416            |                    |         |
| 5,600.00                    | 5,539.23            | 5,528.43            | 5,528.43            | 20.29           | 82.65       | 178.42                | -1,408.43                         | 376.84     | 2,079.82             | 1,977.13              | 102.70                  | 20.252            |                    |         |
| 5,700.00                    | 5,637.06            | 5,626.26            | 5,626.26            | 20.67           | 84.11       | 178.44                | -1,408.43                         | 376.84     | 2,100.52             | 1,995.99              | 104.53                  | 20.094            |                    |         |
| 5,800.00                    | 5,734.90            | 5,724.10            | 5,724.10            | 21.05           | 85.58       | 178.46                | -1,408.43                         | 376.84     | 2,121.22             | 2,014.85              | 106.37                  | 19.941            |                    |         |
| 5,900.00                    | 5,832.73            | 5,821.93            | 5,821.93            | 21.44           | 87.04       | 178.47                | -1,408.43                         | 376.84     | 2,141.92             | 2,033.71              | 108.21                  | 19.794            |                    |         |
| 6,000.00                    | 5,930.56            | 5,919.76            | 5,919.76            | 21.83           | 88.51       | 178.48                | -1,408.43                         | 376.84     | 2,162.62             | 2,052.57              | 110.05                  | 19.651            |                    |         |
| 6,100.00                    | 6,028.39            | 6,017.59            | 6,017.59            | 22.21           | 89.97       | 178.50                | -1,408.43                         | 376.84     | 2,183.32             | 2,071.43              | 111.89                  | 19.513            |                    |         |
| 6,200.00                    | 6,126.23            | 6,115.43            | 6,115.43            | 22.60           | 91.44       | 178.51                | -1,408.43                         | 376.84     | 2,204.02             | 2,090.29              | 113.73                  | 19.379            |                    |         |
| 6,300.00                    | 6,224.06            | 6,213.26            | 6,213.26            | 22.98           | 92.90       | 178.53                | -1,408.43                         | 376.84     | 2,224.72             | 2,109.15              | 115.57                  | 19.250            |                    |         |
| 6,400.00                    | 6,321.89            | 6,311.09            | 6,311.09            | 23.37           | 94.37       | 178.54                | -1,408.43                         | 376.84     | 2,245.42             | 2,128.01              | 117.41                  | 19.124            |                    |         |
| 6,500.00                    | 6,419.72            | 6,408.92            | 6,408.92            | 23.76           | 95.83       | 178.55                | -1,408.43                         | 376.84     | 2,266.12             | 2,146.87              | 119.25                  | 19.003            |                    |         |
| 6,600.00                    | 6,517.56            | 6,506.76            | 6,506.76            | 24.14           | 97.30       | 178.57                | -1,408.43                         | 376.84     | 2,286.82             | 2,165.73              | 121.09                  | 18.885            |                    |         |
| 6,700.00                    | 6,615.39            | 6,604.59            | 6,604.59            | 24.53           | 98.76       | 178.58                | -1,408.43                         | 376.84     | 2,307.52             | 2,184.59              | 122.93                  | 18.770            |                    |         |
| 6,800.00                    | 6,713.22            | 6,702.42            | 6,702.42            | 24.92           | 100.23      | 178.59                | -1,408.43                         | 376.84     | 2,328.22             | 2,203.45              | 124.78                  | 18.659            |                    |         |
| 6,900.00                    | 6,811.05            | 6,800.25            | 6,800.25            | 25.30           | 101.70      | 178.60                | -1,408.43                         | 376.84     | 2,348.92             | 2,222.31              | 126.62                  | 18.551            |                    |         |
| 7,000.00                    | 6,908.89            | 6,898.09            | 6,898.09            | 25.69           | 103.16      | 178.62                | -1,408.43                         | 376.84     | 2,369.63             | 2,241.17              | 128.46                  | 18.446            |                    |         |
| 7,100.00                    | 7,006.72            | 6,995.92            | 6,995.92            | 26.08           | 104.63      | 178.63                | -1,408.43                         | 376.84     | 2,390.33             | 2,260.03              | 130.30                  | 18.345            |                    |         |
| 7,200.00                    | 7,104.55            | 7,093.75            | 7,093.75            | 26.47           | 106.09      | 178.64                | -1,408.43                         | 376.84     | 2,411.03             | 2,278.88              | 132.14                  | 18.246            |                    |         |
| 7,216.87                    | 7,121.05            | 7,110.25            | 7,110.25            | 26.53           | 106.34      | 178.64                | -1,408.43                         | 376.84     | 2,414.52             | 2,282.07              | 132.45                  | 18.229            |                    |         |
| 7,300.00                    | 7,202.57            | 7,191.77            | 7,191.77            | 26.85           | 107.56      | 178.66                | -1,408.43                         | 376.84     | 2,430.84             | 2,296.86              | 133.99                  | 18.142            |                    |         |
| 7,400.00                    | 7,301.06            | 7,290.26            | 7,290.26            | 27.23           | 109.03      | 178.67                | -1,408.43                         | 376.84     | 2,448.12             | 2,312.29              | 135.84                  | 18.023            |                    |         |
| 7,500.00                    | 7,399.97            | 7,389.17            | 7,389.17            | 27.61           | 110.51      | 178.69                | -1,408.43                         | 376.84     | 2,462.82             | 2,325.13              | 137.69                  | 17.887            |                    |         |
| 7,600.00                    | 7,499.23            | 7,488.43            | 7,488.43            | 27.98           | 112.00      | 178.70                | -1,408.43                         | 376.84     | 2,474.92             | 2,335.38              | 139.54                  | 17.736            |                    |         |
| 7,700.00                    | 7,598.77            | 7,587.97            | 7,587.97            | 28.34           | 113.49      | 178.71                | -1,408.43                         | 376.84     | 2,484.42             | 2,343.03              | 141.39                  | 17.571            |                    |         |
| 7,800.00                    | 7,698.53            | 7,687.73            | 7,687.73            | 28.70           | 114.99      | 178.71                | -1,408.43                         | 376.84     | 2,491.32             | 2,348.07              | 143.24                  | 17.392            |                    |         |
| 7,900.00                    | 7,798.44            | 7,787.64            | 7,787.64            | 29.05           | 116.48      | 178.71                | -1,408.43                         | 376.84     | 2,495.60             | 2,350.51              | 145.09                  | 17.200            |                    |         |
| 8,000.00                    | 7,898.42            | 7,887.62            | 7,887.62            | 29.39           | 117.98      | 178.72                | -1,408.43                         | 376.84     | 2,497.26             | 2,350.33              | 146.94                  | 16.996            |                    |         |
| 8,013.58                    | 7,912.00            | 7,901.20            | 7,901.20            | 29.43           | 118.18      | 165.94                | -1,408.43                         | 376.84     | 2,497.29             | 2,350.10              | 147.19                  | 16.967            |                    |         |
| 8,100.00                    | 7,998.42            | 7,987.62            | 7,987.62            | 29.73           | 119.48      | 165.94                | -1,408.43                         | 376.84     | 2,497.29             | 2,348.51              | 148.78                  | 16.785            |                    |         |
| 8,200.00                    | 8,098.42            | 8,087.62            | 8,087.62            | 30.07           | 120.98      | 165.94                | -1,408.43                         | 376.84     | 2,497.29             | 2,346.67              | 150.62                  | 16.580            |                    |         |
| 8,300.00                    | 8,198.42            | 8,187.62            | 8,187.62            | 30.41           | 122.47      | 165.94                | -1,408.43                         | 376.84     | 2,497.29             | 2,344.83              | 152.46                  | 16.380            |                    |         |
| 8,363.62                    | 8,262.04            | 8,251.24            | 8,251.24            | 30.62           | 123.43      | 165.94                | -1,408.43                         | 376.84     | 2,497.29             | 2,343.65              | 153.63                  | 16.255            |                    |         |
| 8,400.00                    | 8,298.40            | 8,287.60            | 8,287.60            | 30.75           | 123.97      | 76.33                 | -1,408.43                         | 376.84     | 2,497.01             | 2,342.72              | 154.30                  | 16.183            |                    |         |
| 8,450.00                    | 8,348.10            | 8,337.30            | 8,337.30            | 30.91           | 124.71      | 76.57                 | -1,408.43                         | 376.84     | 2,495.75             | 2,340.55              | 155.20                  | 16.081            |                    |         |
| 8,500.00                    | 8,397.14            | 8,386.34            | 8,386.34            | 31.07           | 125.45      | 77.00                 | -1,408.43                         | 376.84     | 2,493.50             | 2,337.41              | 156.09                  | 15.974            |                    |         |
| 8,550.00                    | 8,445.15            | 8,434.35            | 8,434.35            | 31.23           | 126.17      | 77.61                 | -1,408.43                         | 376.84     | 2,490.33             | 2,333.36              | 156.97                  | 15.865            |                    |         |
| 8,600.00                    | 8,491.77            | 8,480.97            | 8,480.97            | 31.38           | 126.87      | 78.39                 | -1,408.43                         | 376.84     | 2,486.32             | 2,328.50              | 157.82                  | 15.754            |                    |         |
| 8,650.00                    | 8,536.65            | 8,525.85            | 8,525.85            | 31.52           | 127.54      | 79.30                 | -1,408.43                         | 376.84     | 2,481.59             | 2,322.95              | 158.64                  | 15.643            |                    |         |
| 8,700.00                    | 8,579.43            | 8,568.63            | 8,568.63            | 31.66           | 128.18      | 80.33                 | -1,408.43                         | 376.84     | 2,476.28             | 2,316.85              | 159.43                  | 15.532            |                    |         |
| 8,750.00                    | 8,619.80            | 8,609.00            | 8,609.00            | 31.80           | 128.78      | 81.45                 | -1,408.43                         | 376.84     | 2,470.54             | 2,310.35              | 160.19                  | 15.423            |                    |         |
| 8,800.00                    | 8,657.44            | 8,646.64            | 8,646.64            | 31.93           | 129.35      | 82.62                 | -1,408.43                         | 376.84     | 2,464.54             | 2,303.63              | 160.91                  | 15.317            |                    |         |
| 8,850.00                    | 8,692.08            | 8,681.28            | 8,681.28            | 32.06           | 129.87      | 83.81                 | -1,408.43                         | 376.84     | 2,458.45             | 2,296.86              | 161.59                  | 15.214            |                    |         |
| 8,900.00                    | 8,723.44            | 8,712.64            | 8,712.64            | 32.19           | 130.34      | 84.98                 | -1,408.43                         | 376.84     | 2,452.44             | 2,290.22              | 162.23                  | 15.117            |                    |         |
| 8,950.00                    | 8,751.29            | 8,740.49            | 8,740.49            | 32.34           | 130.75      | 86.10                 | -1,408.43                         | 376.84     | 2,446.71             | 2,283.88              | 162.83                  | 15.027            |                    |         |
| 9,000.00                    | 8,775.42            | 8,764.62            | 8,764.62            | 32.50           | 131.11      | 87.13                 | -1,408.43                         | 376.84     | 2,441.41             | 2,278.03              | 163.39                  | 14.942            |                    |         |
| 9,050.00                    | 8,795.64            | 8,784.84            | 8,784.84            | 32.67           | 131.42      | 88.04                 | -1,408.43                         | 376.84     | 2,436.71             | 2,272.80              | 163.91                  | 14.866            |                    |         |
| 9,100.00                    | 8,811.80            | 8,801.00            | 8,801.00            | 32.87           | 131.66      | 88.80                 | -1,408.43                         | 376.84     | 2,432.74             | 2,268.35              | 164.39                  | 14.799            |                    |         |
| 9,150.00                    | 8,823.77            | 8,812.97            | 8,812.97            | 33.10           | 131.84      | 89.38                 | -1,408.43                         | 376.84     | 2,429.61             | 2,264.79              | 164.82                  | 14.741            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,200.00                    | 8,831.47            | 8,820.67            | 8,820.67            | 33.34           | 131.95      | 89.78                 | -1,408.43                         | 376.84     | 2,427.42             | 2,262.21              | 165.21                  | 14.693            |                    |         |
| 9,250.00                    | 8,834.84            | 8,824.04            | 8,824.04            | 33.60           | 132.00      | 89.98                 | -1,408.43                         | 376.84     | 2,426.23             | 2,260.68              | 165.55                  | 14.656            |                    |         |
| 9,263.62                    | 8,835.00            | 8,824.20            | 8,824.20            | 33.67           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,426.08             | 2,260.45              | 165.63                  | 14.647            |                    |         |
| 9,283.05                    | 8,835.00            | 8,824.20            | 8,824.20            | 33.78           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,426.01             | 2,260.26              | 165.75                  | 14.636            |                    |         |
| 9,300.00                    | 8,835.00            | 8,824.20            | 8,824.20            | 33.88           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,426.07             | 2,260.21              | 165.85                  | 14.628            |                    |         |
| 9,400.00                    | 8,835.00            | 8,824.20            | 8,824.20            | 34.53           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,428.82             | 2,262.29              | 166.53                  | 14.585            |                    |         |
| 9,500.00                    | 8,835.00            | 8,824.20            | 8,824.20            | 35.30           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,435.69             | 2,268.39              | 167.30                  | 14.559            |                    |         |
| 9,600.00                    | 8,835.00            | 8,824.20            | 8,824.20            | 36.17           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,446.62             | 2,278.48              | 168.14                  | 14.551 SF         |                    |         |
| 9,700.00                    | 8,835.00            | 8,824.20            | 8,824.20            | 37.13           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,461.58             | 2,292.54              | 169.04                  | 14.562            |                    |         |
| 9,800.00                    | 8,835.00            | 8,824.20            | 8,824.20            | 38.18           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,480.47             | 2,310.49              | 169.98                  | 14.593            |                    |         |
| 9,900.00                    | 8,835.00            | 8,824.20            | 8,824.20            | 39.31           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,503.22             | 2,332.28              | 170.95                  | 14.643            |                    |         |
| 10,000.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 40.51           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,529.73             | 2,357.80              | 171.93                  | 14.714            |                    |         |
| 10,100.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 41.78           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,559.87             | 2,386.95              | 172.91                  | 14.804            |                    |         |
| 10,200.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 43.10           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,593.51             | 2,419.62              | 173.89                  | 14.914            |                    |         |
| 10,300.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 44.49           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,630.53             | 2,455.68              | 174.85                  | 15.044            |                    |         |
| 10,400.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 45.92           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,670.78             | 2,494.99              | 175.79                  | 15.193            |                    |         |
| 10,500.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 47.39           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,714.12             | 2,537.42              | 176.70                  | 15.360            |                    |         |
| 10,600.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 48.91           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,760.41             | 2,582.83              | 177.58                  | 15.545            |                    |         |
| 10,700.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 50.47           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,809.49             | 2,631.07              | 178.42                  | 15.746            |                    |         |
| 10,800.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 52.06           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,861.23             | 2,682.01              | 179.22                  | 15.965            |                    |         |
| 10,900.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 53.68           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,915.48             | 2,735.49              | 179.99                  | 16.198            |                    |         |
| 11,000.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 55.32           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,972.11             | 2,791.40              | 180.71                  | 16.447            |                    |         |
| 11,100.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 57.00           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,030.97             | 2,849.58              | 181.40                  | 16.709            |                    |         |
| 11,200.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 58.70           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,091.96             | 2,909.91              | 182.04                  | 16.985            |                    |         |
| 11,300.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 60.41           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,154.93             | 2,972.28              | 182.65                  | 17.273            |                    |         |
| 11,400.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 62.15           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,219.78             | 3,036.56              | 183.22                  | 17.573            |                    |         |
| 11,500.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 63.91           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,286.39             | 3,102.63              | 183.76                  | 17.884            |                    |         |
| 11,600.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 65.69           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,354.66             | 3,170.40              | 184.26                  | 18.206            |                    |         |
| 11,700.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 67.47           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,424.49             | 3,239.76              | 184.74                  | 18.537            |                    |         |
| 11,800.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 69.28           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,495.79             | 3,310.61              | 185.18                  | 18.878            |                    |         |
| 11,900.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 71.09           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,568.46             | 3,382.87              | 185.60                  | 19.227            |                    |         |
| 12,000.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 72.92           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,642.43             | 3,456.45              | 185.99                  | 19.585            |                    |         |
| 12,100.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 74.76           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,717.62             | 3,531.27              | 186.35                  | 19.950            |                    |         |
| 12,200.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 76.61           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,793.95             | 3,607.26              | 186.69                  | 20.322            |                    |         |
| 12,300.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 78.47           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,871.37             | 3,684.35              | 187.01                  | 20.701            |                    |         |
| 12,400.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 80.34           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,949.79             | 3,762.48              | 187.31                  | 21.087            |                    |         |
| 12,500.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 82.22           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,029.18             | 3,841.58              | 187.60                  | 21.478            |                    |         |
| 12,600.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 84.11           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,109.46             | 3,921.60              | 187.86                  | 21.875            |                    |         |
| 12,700.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 86.00           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,190.59             | 4,002.48              | 188.11                  | 22.277            |                    |         |
| 12,800.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 87.90           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,272.52             | 4,084.17              | 188.35                  | 22.684            |                    |         |
| 12,900.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 89.81           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,355.21             | 4,166.64              | 188.57                  | 23.096            |                    |         |
| 13,000.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 91.72           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,438.60             | 4,249.83              | 188.77                  | 23.513            |                    |         |
| 13,100.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 93.64           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,522.68             | 4,333.71              | 188.97                  | 23.933            |                    |         |
| 13,200.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 95.56           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,607.38             | 4,418.23              | 189.16                  | 24.358            |                    |         |
| 13,300.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 97.49           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,692.69             | 4,503.36              | 189.33                  | 24.786            |                    |         |
| 13,400.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 99.42           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,778.57             | 4,589.08              | 189.50                  | 25.217            |                    |         |
| 13,500.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 101.36          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,864.99             | 4,675.34              | 189.65                  | 25.652            |                    |         |
| 13,600.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 103.30          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,951.92             | 4,762.12              | 189.80                  | 26.090            |                    |         |
| 13,700.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 105.25          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 5,039.34             | 4,849.39              | 189.94                  | 26.531            |                    |         |
| 13,800.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 107.20          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 5,127.21             | 4,937.13              | 190.08                  | 26.974            |                    |         |
| 13,900.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 109.15          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 5,215.53             | 5,025.32              | 190.21                  | 27.420            |                    |         |
| 14,000.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 111.10          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 5,304.25             | 5,113.92              | 190.33                  | 27.869            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Esperanza 14 State #001 (Active) - Wellbore #1 - Wellbore #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Site Error:</b> | 0.00 ft |
|------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 10-INC-ONLY                                                                          |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                            |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                           | Warning |
| Measured Depth (ft)                                                                                  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor         |         |
| 14,100.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 113.06          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 5,393.37             | 5,202.93              | 190.45                  | 28.320                    |         |
| 14,200.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 115.03          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 5,482.87             | 5,292.31              | 190.56                  | 28.773                    |         |
| 14,300.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 116.99          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 5,572.73             | 5,382.06              | 190.67                  | 29.228                    |         |
| 14,400.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 118.96          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 5,662.92             | 5,472.15              | 190.77                  | 29.685                    |         |
| 14,500.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 120.93          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 5,753.44             | 5,562.57              | 190.87                  | 30.144                    |         |
| 14,600.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 122.90          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 5,844.27             | 5,653.30              | 190.96                  | 30.604                    |         |
| 14,700.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 124.88          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 5,935.39             | 5,744.33              | 191.05                  | 31.067                    |         |
| 14,800.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 126.86          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 6,026.79             | 5,835.65              | 191.14                  | 31.531                    |         |
| 14,900.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 128.84          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 6,118.46             | 5,927.24              | 191.23                  | 31.996                    |         |
| 15,000.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 130.82          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 6,210.39             | 6,019.09              | 191.31                  | 32.463                    |         |
| 15,100.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 132.80          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 6,302.57             | 6,111.18              | 191.39                  | 32.931                    |         |
| 15,200.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 134.79          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 6,394.98             | 6,203.51              | 191.47                  | 33.400                    |         |
| 15,300.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 136.78          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 6,487.62             | 6,296.08              | 191.54                  | 33.871                    |         |
| 15,400.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 138.76          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 6,580.47             | 6,388.85              | 191.61                  | 34.342                    |         |
| 15,500.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 140.76          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 6,673.53             | 6,481.84              | 191.69                  | 34.815                    |         |
| 15,600.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 142.75          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 6,766.78             | 6,575.03              | 191.76                  | 35.289                    |         |
| 15,700.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 144.74          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 6,860.23             | 6,668.40              | 191.82                  | 35.763                    |         |
| 15,800.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 146.74          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 6,953.86             | 6,761.97              | 191.89                  | 36.239                    |         |
| 15,900.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 148.73          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 7,047.66             | 6,855.70              | 191.96                  | 36.715                    |         |
| 16,000.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 150.73          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 7,141.63             | 6,949.61              | 192.02                  | 37.192                    |         |
| 16,100.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 152.73          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 7,235.76             | 7,043.68              | 192.08                  | 37.670                    |         |
| 16,200.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 154.73          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 7,330.05             | 7,137.91              | 192.14                  | 38.149                    |         |
| 16,300.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 156.73          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 7,424.49             | 7,232.29              | 192.20                  | 38.628                    |         |
| 16,400.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 158.74          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 7,519.07             | 7,326.81              | 192.26                  | 39.108                    |         |
| 16,500.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 160.74          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 7,613.79             | 7,421.47              | 192.32                  | 39.588                    |         |
| 16,600.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 162.74          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 7,708.65             | 7,516.26              | 192.38                  | 40.069                    |         |
| 16,700.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 164.75          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 7,803.63             | 7,611.19              | 192.44                  | 40.551                    |         |
| 16,800.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 166.76          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 7,898.73             | 7,706.24              | 192.50                  | 41.033                    |         |
| 16,900.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 168.77          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 7,993.96             | 7,801.41              | 192.55                  | 41.516                    |         |
| 17,000.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 170.77          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 8,089.30             | 7,896.69              | 192.61                  | 41.998                    |         |
| 17,100.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 172.78          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 8,184.75             | 7,992.09              | 192.67                  | 42.482                    |         |
| 17,200.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 174.79          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 8,280.31             | 8,087.59              | 192.72                  | 42.965                    |         |
| 17,300.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 176.81          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 8,375.98             | 8,183.20              | 192.78                  | 43.449                    |         |
| 17,400.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 178.82          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 8,471.74             | 8,278.91              | 192.83                  | 43.934                    |         |
| 17,500.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 180.83          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 8,567.60             | 8,374.71              | 192.88                  | 44.418                    |         |
| 17,600.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 182.84          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 8,663.55             | 8,470.61              | 192.94                  | 44.903                    |         |
| 17,700.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 184.86          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 8,759.60             | 8,566.60              | 192.99                  | 45.388                    |         |
| 17,800.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 186.87          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 8,855.73             | 8,662.68              | 193.05                  | 45.873                    |         |
| 17,900.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 188.89          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 8,951.94             | 8,758.84              | 193.10                  | 46.359                    |         |
| 18,000.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 190.91          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 9,048.24             | 8,855.09              | 193.15                  | 46.845                    |         |
| 18,100.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 192.92          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 9,144.62             | 8,951.41              | 193.21                  | 47.330                    |         |
| 18,200.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 194.94          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 9,241.07             | 9,047.81              | 193.26                  | 47.816                    |         |
| 18,300.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 196.96          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 9,337.60             | 9,144.29              | 193.32                  | 48.302                    |         |
| 18,400.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 198.98          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 9,434.21             | 9,240.84              | 193.37                  | 48.789                    |         |
| 18,500.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 201.00          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 9,530.88             | 9,337.46              | 193.42                  | 49.275                    |         |
| 18,600.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 203.02          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 9,627.62             | 9,434.14              | 193.48                  | 49.761                    |         |
| 18,700.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 205.04          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 9,724.42             | 9,530.89              | 193.53                  | 50.248                    |         |
| 18,800.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 207.06          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 9,821.29             | 9,627.71              | 193.58                  | 50.734                    |         |
| 18,900.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 209.08          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 9,918.23             | 9,724.59              | 193.64                  | 51.220                    |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft  |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|----------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 10.00 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning  |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |          |
| 0.00                        | 0.00                | 0.00                | 0.00                | 0.50            | 10.00       | 15.02                 | 1,387.93                          | 372.48     | 1,437.11             |                       |                         |                   |                    |          |
| 100.00                      | 100.00              | 86.20               | 86.20               | 0.52            | 10.12       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,426.41              | 10.64                   | 135.112           |                    |          |
| 200.00                      | 200.00              | 186.20              | 186.20              | 0.70            | 10.62       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,425.72              | 11.32                   | 126.963           |                    |          |
| 300.00                      | 300.00              | 286.20              | 286.20              | 0.99            | 11.46       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,424.60              | 12.44                   | 115.491           |                    |          |
| 400.00                      | 400.00              | 386.20              | 386.20              | 1.31            | 12.57       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,423.16              | 13.88                   | 103.560           |                    |          |
| 500.00                      | 500.00              | 486.20              | 486.20              | 1.65            | 13.89       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,421.51              | 15.53                   | 92.518            |                    |          |
| 600.00                      | 600.00              | 586.20              | 586.20              | 1.99            | 15.36       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,419.69              | 17.35                   | 82.826            |                    |          |
| 700.00                      | 700.00              | 686.20              | 686.20              | 2.34            | 16.95       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,417.76              | 19.29                   | 74.513            |                    |          |
| 800.00                      | 800.00              | 786.20              | 786.20              | 2.69            | 18.62       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,415.73              | 21.31                   | 67.438            |                    |          |
| 900.00                      | 900.00              | 886.20              | 886.20              | 3.04            | 20.35       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,413.64              | 23.40                   | 61.418            |                    |          |
| 1,000.00                    | 1,000.00            | 986.20              | 986.20              | 3.40            | 22.14       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,411.50              | 25.54                   | 56.274            |                    |          |
| 1,100.00                    | 1,100.00            | 1,086.20            | 1,086.20            | 3.75            | 23.96       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,409.33              | 27.71                   | 51.853            |                    |          |
| 1,200.00                    | 1,200.00            | 1,186.20            | 1,186.20            | 4.11            | 25.81       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,407.12              | 29.92                   | 48.026            |                    |          |
| 1,300.00                    | 1,300.00            | 1,286.20            | 1,286.20            | 4.46            | 27.69       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,404.89              | 32.15                   | 44.692            |                    |          |
| 1,400.00                    | 1,400.00            | 1,386.20            | 1,386.20            | 4.82            | 29.59       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,402.63              | 34.41                   | 41.767            |                    |          |
| 1,500.00                    | 1,500.00            | 1,486.20            | 1,486.20            | 5.18            | 31.50       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,400.37              | 36.67                   | 39.183            |                    |          |
| 1,600.00                    | 1,600.00            | 1,586.20            | 1,586.20            | 5.53            | 33.42       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,398.08              | 38.96                   | 36.888            |                    |          |
| 1,700.00                    | 1,700.00            | 1,686.20            | 1,686.20            | 5.89            | 35.36       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,395.79              | 41.25                   | 34.838            |                    |          |
| 1,800.00                    | 1,800.00            | 1,786.20            | 1,786.20            | 6.25            | 37.30       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,393.49              | 43.55                   | 32.996            |                    |          |
| 1,900.00                    | 1,900.00            | 1,886.20            | 1,886.20            | 6.61            | 39.26       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,391.18              | 45.86                   | 31.334            |                    |          |
| 2,000.00                    | 2,000.00            | 1,986.20            | 1,986.20            | 6.96            | 41.22       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,388.86              | 48.18                   | 29.827            |                    |          |
| 2,100.00                    | 2,099.99            | 2,086.19            | 2,086.19            | 7.32            | 43.18       | 27.82                 | 1,387.93                          | 372.48     | 1,436.27             | 1,385.77              | 50.50                   | 28.440            |                    |          |
| 2,200.00                    | 2,199.96            | 2,186.16            | 2,186.16            | 7.68            | 45.15       | 27.88                 | 1,387.93                          | 372.48     | 1,433.95             | 1,381.12              | 52.83                   | 27.143            |                    |          |
| 2,300.00                    | 2,299.86            | 2,286.06            | 2,286.06            | 8.04            | 47.13       | 27.98                 | 1,387.93                          | 372.48     | 1,430.10             | 1,374.94              | 55.16                   | 25.926            |                    |          |
| 2,400.00                    | 2,399.68            | 2,385.88            | 2,385.88            | 8.39            | 49.10       | 28.12                 | 1,387.93                          | 372.48     | 1,424.71             | 1,367.22              | 57.49                   | 24.781            |                    |          |
| 2,500.00                    | 2,499.37            | 2,485.57            | 2,485.57            | 8.75            | 51.08       | 28.30                 | 1,387.93                          | 372.48     | 1,417.79             | 1,357.96              | 59.83                   | 23.698            |                    |          |
| 2,600.00                    | 2,598.90            | 2,585.10            | 2,585.10            | 9.11            | 53.05       | 28.53                 | 1,387.93                          | 372.48     | 1,409.35             | 1,347.19              | 62.16                   | 22.673            |                    |          |
| 2,700.00                    | 2,698.26            | 2,684.46            | 2,684.46            | 9.46            | 55.03       | 28.80                 | 1,387.93                          | 372.48     | 1,399.41             | 1,334.91              | 64.49                   | 21.698            |                    |          |
| 2,800.00                    | 2,797.40            | 2,783.60            | 2,783.60            | 9.82            | 57.00       | 29.11                 | 1,387.93                          | 372.48     | 1,387.96             | 1,321.14              | 66.82                   | 20.770            |                    |          |
| 2,900.00                    | 2,896.30            | 2,882.50            | 2,882.50            | 10.18           | 58.97       | 29.48                 | 1,387.93                          | 372.48     | 1,375.04             | 1,305.88              | 69.15                   | 19.884            |                    |          |
| 3,000.00                    | 2,994.93            | 2,981.13            | 2,981.13            | 10.54           | 60.94       | 29.89                 | 1,387.93                          | 372.48     | 1,360.65             | 1,289.17              | 71.48                   | 19.036            |                    |          |
| 3,100.00                    | 3,093.26            | 3,079.46            | 3,079.46            | 10.90           | 62.90       | 30.36                 | 1,387.93                          | 372.48     | 1,344.82             | 1,271.02              | 73.80                   | 18.222            |                    |          |
| 3,195.07                    | 3,186.42            | 3,172.62            | 3,172.62            | 11.24           | 64.77       | 30.85                 | 1,387.93                          | 372.48     | 1,328.46             | 1,252.45              | 76.00                   | 17.479            |                    |          |
| 3,200.00                    | 3,191.25            | 3,177.45            | 3,177.45            | 11.26           | 64.86       | 30.87                 | 1,387.93                          | 372.48     | 1,327.58             | 1,251.46              | 76.12                   | 17.441            |                    |          |
| 3,300.00                    | 3,289.08            | 3,275.28            | 3,275.28            | 11.62           | 66.82       | 31.34                 | 1,387.93                          | 372.48     | 1,309.74             | 1,231.31              | 78.43                   | 16.699            |                    |          |
| 3,400.00                    | 3,386.91            | 3,373.11            | 3,373.11            | 11.98           | 68.78       | 31.81                 | 1,387.93                          | 372.48     | 1,292.00             | 1,211.24              | 80.75                   | 15.999            |                    |          |
| 3,500.00                    | 3,484.74            | 3,470.94            | 3,470.94            | 12.35           | 70.74       | 32.30                 | 1,387.93                          | 372.48     | 1,274.34             | 1,191.27              | 83.08                   | 15.340            |                    |          |
| 3,600.00                    | 3,582.58            | 3,568.78            | 3,568.78            | 12.72           | 72.70       | 32.80                 | 1,387.93                          | 372.48     | 1,256.78             | 1,171.38              | 85.40                   | 14.716            |                    |          |
| 3,700.00                    | 3,680.41            | 3,666.61            | 3,666.61            | 13.09           | 74.66       | 33.31                 | 1,387.93                          | 372.48     | 1,239.31             | 1,151.58              | 87.73                   | 14.127            |                    |          |
| 3,800.00                    | 3,778.24            | 3,764.44            | 3,764.44            | 13.46           | 76.62       | 33.84                 | 1,387.93                          | 372.48     | 1,221.94             | 1,131.89              | 90.06                   | 13.569            |                    |          |
| 3,900.00                    | 3,876.08            | 3,862.28            | 3,862.28            | 13.83           | 78.58       | 34.39                 | 1,387.93                          | 372.48     | 1,204.68             | 1,112.30              | 92.39                   | 13.040            |                    |          |
| 4,000.00                    | 3,973.91            | 3,960.11            | 3,960.11            | 14.21           | 80.55       | 34.95                 | 1,387.93                          | 372.48     | 1,187.53             | 1,092.81              | 94.72                   | 12.537            |                    |          |
| 4,100.00                    | 4,071.74            | 4,057.94            | 4,057.94            | 14.58           | 82.51       | 35.53                 | 1,387.93                          | 372.48     | 1,170.50             | 1,073.44              | 97.05                   | 12.060            |                    |          |
| 4,200.00                    | 4,169.57            | 4,155.77            | 4,155.77            | 14.96           | 84.48       | 36.12                 | 1,387.93                          | 372.48     | 1,153.58             | 1,054.19              | 99.39                   | 11.607            |                    |          |
| 4,300.00                    | 4,267.41            | 4,253.61            | 4,253.61            | 15.33           | 86.44       | 36.73                 | 1,387.93                          | 372.48     | 1,136.79             | 1,035.07              | 101.73                  | 11.175            |                    |          |
| 4,400.00                    | 4,365.24            | 4,351.44            | 4,351.44            | 15.71           | 88.41       | 37.36                 | 1,387.93                          | 372.48     | 1,120.14             | 1,016.07              | 104.07                  | 10.763            |                    |          |
| 4,500.00                    | 4,463.07            | 4,449.27            | 4,449.27            | 16.09           | 90.38       | 38.00                 | 1,387.93                          | 372.48     | 1,103.62             | 997.21                | 106.41                  | 10.371            |                    |          |
| 4,600.00                    | 4,560.90            | 4,547.10            | 4,547.10            | 16.47           | 92.34       | 38.67                 | 1,387.93                          | 372.48     | 1,087.24             | 978.48                | 108.75                  | 9.997             |                    |          |
| 4,700.00                    | 4,658.74            | 4,644.94            | 4,644.94            | 16.85           | 94.31       | 39.36                 | 1,387.93                          | 372.48     | 1,071.01             | 959.91                | 111.10                  | 9.640             |                    |          |
| 4,800.00                    | 4,756.57            | 4,742.77            | 4,742.77            | 17.23           | 96.28       | 40.06                 | 1,387.93                          | 372.48     | 1,054.94             | 941.50                | 113.44                  | 9.299             |                    |          |
| 4,900.00                    | 4,854.40            | 4,840.60            | 4,840.60            | 17.61           | 98.25       | 40.79                 | 1,387.93                          | 372.48     | 1,039.03             | 923.24                | 115.79                  | 8.973             |                    |          |
| 5,000.00                    | 4,952.23            | 4,938.43            | 4,938.43            | 17.99           | 100.22      | 41.54                 | 1,387.93                          | 372.48     | 1,023.30             | 905.16                | 118.14                  | 8.662             |                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft  |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|----------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 10.00 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning  |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |          |
| 5,100.00                    | 5,050.07            | 5,036.27            | 5,036.27            | 18.37           | 102.19      | 42.32                 | 1,387.93                          | 372.48     | 1,007.74             | 887.26                | 120.49                  | 8.364             |                    |          |
| 5,200.00                    | 5,147.90            | 5,134.10            | 5,134.10            | 18.75           | 104.16      | 43.11                 | 1,387.93                          | 372.48     | 992.37               | 869.54                | 122.84                  | 8.079             |                    |          |
| 5,300.00                    | 5,245.73            | 5,231.93            | 5,231.93            | 19.14           | 106.13      | 43.93                 | 1,387.93                          | 372.48     | 977.21               | 852.02                | 125.19                  | 7.806             |                    |          |
| 5,400.00                    | 5,343.56            | 5,329.76            | 5,329.76            | 19.52           | 108.10      | 44.78                 | 1,387.93                          | 372.48     | 962.24               | 834.70                | 127.54                  | 7.545             |                    |          |
| 5,500.00                    | 5,441.40            | 5,427.60            | 5,427.60            | 19.90           | 110.07      | 45.65                 | 1,387.93                          | 372.48     | 947.49               | 817.60                | 129.89                  | 7.294             |                    |          |
| 5,600.00                    | 5,539.23            | 5,525.43            | 5,525.43            | 20.29           | 112.04      | 46.55                 | 1,387.93                          | 372.48     | 932.97               | 800.72                | 132.25                  | 7.055             |                    |          |
| 5,700.00                    | 5,637.06            | 5,623.26            | 5,623.26            | 20.67           | 114.01      | 47.48                 | 1,387.93                          | 372.48     | 918.69               | 784.09                | 134.61                  | 6.825             |                    |          |
| 5,800.00                    | 5,734.90            | 5,721.10            | 5,721.10            | 21.05           | 115.99      | 48.43                 | 1,387.93                          | 372.48     | 904.66               | 767.69                | 136.96                  | 6.605             |                    |          |
| 5,900.00                    | 5,832.73            | 5,818.93            | 5,818.93            | 21.44           | 117.96      | 49.42                 | 1,387.93                          | 372.48     | 890.88               | 751.56                | 139.32                  | 6.395             |                    |          |
| 6,000.00                    | 5,930.56            | 5,916.76            | 5,916.76            | 21.83           | 119.93      | 50.43                 | 1,387.93                          | 372.48     | 877.38               | 735.70                | 141.68                  | 6.193             |                    |          |
| 6,100.00                    | 6,028.39            | 6,014.59            | 6,014.59            | 22.21           | 121.90      | 51.48                 | 1,387.93                          | 372.48     | 864.16               | 720.12                | 144.04                  | 6.000             |                    |          |
| 6,200.00                    | 6,126.23            | 6,112.43            | 6,112.43            | 22.60           | 123.88      | 52.55                 | 1,387.93                          | 372.48     | 851.24               | 704.85                | 146.40                  | 5.815             |                    |          |
| 6,300.00                    | 6,224.06            | 6,210.26            | 6,210.26            | 22.98           | 125.85      | 53.66                 | 1,387.93                          | 372.48     | 838.64               | 689.88                | 148.76                  | 5.638             |                    |          |
| 6,400.00                    | 6,321.89            | 6,308.09            | 6,308.09            | 23.37           | 127.82      | 54.80                 | 1,387.93                          | 372.48     | 826.36               | 675.24                | 151.12                  | 5.468             |                    |          |
| 6,500.00                    | 6,419.72            | 6,405.92            | 6,405.92            | 23.76           | 129.80      | 55.97                 | 1,387.93                          | 372.48     | 814.42               | 660.94                | 153.48                  | 5.306             |                    |          |
| 6,600.00                    | 6,517.56            | 6,503.76            | 6,503.76            | 24.14           | 131.77      | 57.18                 | 1,387.93                          | 372.48     | 802.84               | 646.99                | 155.85                  | 5.151             |                    |          |
| 6,700.00                    | 6,615.39            | 6,601.59            | 6,601.59            | 24.53           | 133.74      | 58.42                 | 1,387.93                          | 372.48     | 791.63               | 633.42                | 158.21                  | 5.004             |                    |          |
| 6,800.00                    | 6,713.22            | 6,699.42            | 6,699.42            | 24.92           | 135.72      | 59.69                 | 1,387.93                          | 372.48     | 780.81               | 620.23                | 160.58                  | 4.863 Alert       |                    |          |
| 6,900.00                    | 6,811.05            | 6,797.25            | 6,797.25            | 25.30           | 137.69      | 61.00                 | 1,387.93                          | 372.48     | 770.39               | 607.45                | 162.94                  | 4.728 Alert       |                    |          |
| 7,000.00                    | 6,908.89            | 6,895.09            | 6,895.09            | 25.69           | 139.67      | 62.34                 | 1,387.93                          | 372.48     | 760.40               | 595.09                | 165.31                  | 4.600 Alert       |                    |          |
| 7,100.00                    | 7,006.72            | 6,992.92            | 6,992.92            | 26.08           | 141.64      | 63.72                 | 1,387.93                          | 372.48     | 750.84               | 583.17                | 167.68                  | 4.478 Alert       |                    |          |
| 7,200.00                    | 7,104.55            | 7,090.75            | 7,090.75            | 26.47           | 143.61      | 65.12                 | 1,387.93                          | 372.48     | 741.74               | 571.70                | 170.04                  | 4.362 Alert       |                    |          |
| 7,216.87                    | 7,121.05            | 7,107.25            | 7,107.25            | 26.53           | 143.95      | 65.36                 | 1,387.93                          | 372.48     | 740.25               | 569.81                | 170.44                  | 4.343 Alert       |                    |          |
| 7,300.00                    | 7,202.57            | 7,188.77            | 7,188.77            | 26.85           | 145.59      | 66.41                 | 1,387.93                          | 372.48     | 733.47               | 561.06                | 172.41                  | 4.254 Alert       |                    |          |
| 7,400.00                    | 7,301.06            | 7,287.26            | 7,287.26            | 27.23           | 147.58      | 67.55                 | 1,387.93                          | 372.48     | 726.62               | 551.84                | 174.78                  | 4.157 Alert       |                    |          |
| 7,500.00                    | 7,399.97            | 7,386.17            | 7,386.17            | 27.61           | 149.58      | 68.54                 | 1,387.93                          | 372.48     | 721.07               | 543.91                | 177.16                  | 4.070 Alert       |                    |          |
| 7,600.00                    | 7,499.23            | 7,485.43            | 7,485.43            | 27.98           | 151.58      | 69.37                 | 1,387.93                          | 372.48     | 716.70               | 537.16                | 179.53                  | 3.992 Alert       |                    |          |
| 7,700.00                    | 7,598.77            | 7,584.97            | 7,584.97            | 28.34           | 153.59      | 70.04                 | 1,387.93                          | 372.48     | 713.39               | 531.48                | 181.91                  | 3.922 Alert       |                    |          |
| 7,800.00                    | 7,698.53            | 7,684.73            | 7,684.73            | 28.70           | 155.61      | 70.53                 | 1,387.93                          | 372.48     | 711.06               | 526.78                | 184.28                  | 3.859 Alert       |                    |          |
| 7,900.00                    | 7,798.44            | 7,784.64            | 7,784.64            | 29.05           | 157.62      | 70.83                 | 1,387.93                          | 372.48     | 709.64               | 522.99                | 186.65                  | 3.802 Alert       |                    |          |
| 8,000.00                    | 7,898.42            | 7,884.62            | 7,884.62            | 29.39           | 159.64      | 70.95                 | 1,387.93                          | 372.48     | 709.09               | 520.08                | 189.01                  | 3.752 Alert       |                    |          |
| 8,013.58                    | 7,912.00            | 7,898.20            | 7,898.20            | 29.43           | 159.92      | 58.17                 | 1,387.93                          | 372.48     | 709.09               | 519.75                | 189.33                  | 3.745 Alert       |                    |          |
| 8,100.00                    | 7,998.42            | 7,984.62            | 7,984.62            | 29.73           | 161.66      | 58.17                 | 1,387.93                          | 372.48     | 709.09               | 517.72                | 191.37                  | 3.705 Alert       |                    |          |
| 8,200.00                    | 8,098.42            | 8,084.62            | 8,084.62            | 30.07           | 163.68      | 58.17                 | 1,387.93                          | 372.48     | 709.09               | 515.36                | 193.73                  | 3.660 Alert       |                    |          |
| 8,300.00                    | 8,198.42            | 8,184.62            | 8,184.62            | 30.41           | 165.70      | 58.17                 | 1,387.93                          | 372.48     | 709.09               | 513.00                | 196.09                  | 3.616 Alert       |                    |          |
| 8,363.62                    | 8,262.04            | 8,248.24            | 8,248.24            | 30.62           | 166.98      | 58.17                 | 1,387.93                          | 372.48     | 709.09               | 511.49                | 197.59                  | 3.589 Alert       |                    |          |
| 8,400.00                    | 8,298.40            | 8,284.60            | 8,284.60            | 30.75           | 167.72      | -31.58                | 1,387.93                          | 372.48     | 708.10               | 509.65                | 198.45                  | 3.568 Alert       |                    |          |
| 8,450.00                    | 8,348.10            | 8,334.30            | 8,334.30            | 30.91           | 168.72      | -32.05                | 1,387.93                          | 372.48     | 703.55               | 503.94                | 199.61                  | 3.525 Alert       |                    |          |
| 8,500.00                    | 8,397.14            | 8,383.34            | 8,383.34            | 31.07           | 169.71      | -32.92                | 1,387.93                          | 372.48     | 695.36               | 494.59                | 200.77                  | 3.464 Alert       |                    |          |
| 8,550.00                    | 8,445.15            | 8,431.35            | 8,431.35            | 31.23           | 170.68      | -34.22                | 1,387.93                          | 372.48     | 683.64               | 481.75                | 201.89                  | 3.386 Alert       |                    |          |
| 8,600.00                    | 8,491.77            | 8,477.97            | 8,477.97            | 31.38           | 171.63      | -35.99                | 1,387.93                          | 372.48     | 668.56               | 465.57                | 202.99                  | 3.294 Alert       |                    |          |
| 8,650.00                    | 8,536.65            | 8,522.85            | 8,522.85            | 31.52           | 172.53      | -38.28                | 1,387.93                          | 372.48     | 650.34               | 446.30                | 204.04                  | 3.187 Alert       |                    |          |
| 8,700.00                    | 8,579.43            | 8,565.63            | 8,565.63            | 31.66           | 173.40      | -41.16                | 1,387.93                          | 372.48     | 629.27               | 424.22                | 205.05                  | 3.069 Alert       |                    |          |
| 8,750.00                    | 8,619.80            | 8,606.00            | 8,606.00            | 31.80           | 174.21      | -44.69                | 1,387.93                          | 372.48     | 605.68               | 399.68                | 206.00                  | 2.940 Alert       |                    |          |
| 8,800.00                    | 8,657.44            | 8,643.64            | 8,643.64            | 31.93           | 174.97      | -48.90                | 1,387.93                          | 372.48     | 580.01               | 373.12                | 206.90                  | 2.803 Alert       |                    |          |
| 8,850.00                    | 8,692.08            | 8,678.28            | 8,678.28            | 32.06           | 175.67      | -53.79                | 1,387.93                          | 372.48     | 552.75               | 345.03                | 207.73                  | 2.661 Alert       |                    |          |
| 8,900.00                    | 8,723.44            | 8,709.64            | 8,709.64            | 32.19           | 176.30      | -59.26                | 1,387.93                          | 372.48     | 524.51               | 316.02                | 208.49                  | 2.516 Alert       |                    |          |
| 8,950.00                    | 8,751.29            | 8,737.49            | 8,737.49            | 32.34           | 176.87      | -65.12                | 1,387.93                          | 372.48     | 495.98               | 286.79                | 209.19                  | 2.371 Minor Risk  |                    |          |
| 9,000.00                    | 8,775.42            | 8,761.62            | 8,761.62            | 32.50           | 177.35      | -71.06                | 1,387.93                          | 372.48     | 468.01               | 258.17                | 209.84                  | 2.230 Minor Risk  |                    |          |
| 9,050.00                    | 8,795.64            | 8,781.84            | 8,781.84            | 32.67           | 177.76      | -76.69                | 1,387.93                          | 372.48     | 441.54               | 231.12                | 210.42                  | 2.098 Minor Risk  |                    |          |
| 9,100.00                    | 8,811.80            | 8,798.00            | 8,798.00            | 32.87           | 178.09      | -81.64                | 1,387.93                          | 372.48     | 417.67               | 206.73                | 210.94                  | 1.980 Minor Risk  |                    |          |
| 9,150.00                    | 8,823.77            | 8,809.97            | 8,809.97            | 33.10           | 178.33      | -85.60                | 1,387.93                          | 372.48     | 397.57               | 186.15                | 211.42                  | 1.880 Minor Risk  |                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft  |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|----------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 10.00 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning  |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |          |
| 9,200.00                    | 8,831.47            | 8,817.67            | 8,817.67            | 33.34           | 178.49      | -88.37                | 1,387.93                          | 372.48     | 382.38               | 170.56                | 211.82                  | 1.805             | Minor Risk         |          |
| 9,250.00                    | 8,834.84            | 8,821.04            | 8,821.04            | 33.60           | 178.55      | -89.83                | 1,387.93                          | 372.48     | 373.10               | 160.95                | 212.15                  | 1.759             | Minor Risk         |          |
| 9,263.62                    | 8,835.00            | 8,821.20            | 8,821.20            | 33.67           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 371.69               | 159.47                | 212.22                  | 1.751             | Minor Risk         |          |
| 9,295.36                    | 8,835.00            | 8,821.20            | 8,821.20            | 33.85           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 370.33               | 157.96                | 212.38                  | 1.744             | Minor Risk, CC, ES |          |
| 9,300.00                    | 8,835.00            | 8,821.20            | 8,821.20            | 33.88           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 370.36               | 157.96                | 212.40                  | 1.744             | Minor Risk, SF     |          |
| 9,400.00                    | 8,835.00            | 8,821.20            | 8,821.20            | 34.53           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 384.83               | 172.04                | 212.79                  | 1.809             | Minor Risk         |          |
| 9,500.00                    | 8,835.00            | 8,821.20            | 8,821.20            | 35.30           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 423.11               | 210.14                | 212.97                  | 1.987             | Minor Risk         |          |
| 9,600.00                    | 8,835.00            | 8,821.20            | 8,821.20            | 36.17           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 479.53               | 266.54                | 212.99                  | 2.251             | Minor Risk         |          |
| 9,700.00                    | 8,835.00            | 8,821.20            | 8,821.20            | 37.13           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 548.53               | 335.60                | 212.92                  | 2.576             | Alert              |          |
| 9,800.00                    | 8,835.00            | 8,821.20            | 8,821.20            | 38.18           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 625.95               | 413.12                | 212.83                  | 2.941             | Alert              |          |
| 9,900.00                    | 8,835.00            | 8,821.20            | 8,821.20            | 39.31           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 709.04               | 496.30                | 212.74                  | 3.333             | Alert              |          |
| 10,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 40.51           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 796.03               | 583.38                | 212.66                  | 3.743             | Alert              |          |
| 10,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 41.78           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 885.77               | 673.19                | 212.59                  | 4.167             | Alert              |          |
| 10,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 43.10           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 977.51               | 764.98                | 212.53                  | 4.599             | Alert              |          |
| 10,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 44.49           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,070.73             | 858.24                | 212.48                  | 5.039             |                    |          |
| 10,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 45.92           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,165.07             | 952.62                | 212.44                  | 5.484             |                    |          |
| 10,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 47.39           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,260.28             | 1,047.87              | 212.41                  | 5.933             |                    |          |
| 10,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 48.91           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,356.19             | 1,143.79              | 212.39                  | 6.385             |                    |          |
| 10,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 50.47           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,452.64             | 1,240.27              | 212.37                  | 6.840             |                    |          |
| 10,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 52.06           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,549.55             | 1,337.19              | 212.36                  | 7.297             |                    |          |
| 10,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 53.68           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,646.82             | 1,434.47              | 212.35                  | 7.755             |                    |          |
| 11,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 55.32           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,744.41             | 1,532.06              | 212.35                  | 8.215             |                    |          |
| 11,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 57.00           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,842.25             | 1,629.90              | 212.35                  | 8.676             |                    |          |
| 11,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 58.70           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,940.31             | 1,727.96              | 212.35                  | 9.137             |                    |          |
| 11,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 60.41           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,038.56             | 1,826.21              | 212.36                  | 9.600             |                    |          |
| 11,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 62.15           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,136.98             | 1,924.61              | 212.37                  | 10.063            |                    |          |
| 11,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 63.91           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,235.53             | 2,023.16              | 212.38                  | 10.526            |                    |          |
| 11,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 65.69           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,334.21             | 2,121.82              | 212.39                  | 10.990            |                    |          |
| 11,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 67.47           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,432.99             | 2,220.59              | 212.40                  | 11.455            |                    |          |
| 11,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 69.28           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,531.87             | 2,319.46              | 212.42                  | 11.919            |                    |          |
| 11,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 71.09           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,630.84             | 2,418.40              | 212.43                  | 12.384            |                    |          |
| 12,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 72.92           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,729.88             | 2,517.43              | 212.45                  | 12.849            |                    |          |
| 12,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 74.76           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,828.99             | 2,616.51              | 212.48                  | 13.314            |                    |          |
| 12,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 76.61           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,928.16             | 2,715.66              | 212.50                  | 13.780            |                    |          |
| 12,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 78.47           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,027.38             | 2,814.86              | 212.52                  | 14.245            |                    |          |
| 12,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 80.34           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,126.65             | 2,914.11              | 212.55                  | 14.710            |                    |          |
| 12,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 82.22           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,225.97             | 3,013.40              | 212.57                  | 15.176            |                    |          |
| 12,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 84.11           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,325.33             | 3,112.73              | 212.60                  | 15.641            |                    |          |
| 12,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 86.00           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,424.73             | 3,212.10              | 212.63                  | 16.107            |                    |          |
| 12,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 87.90           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,524.16             | 3,311.50              | 212.66                  | 16.572            |                    |          |
| 12,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 89.81           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,623.62             | 3,410.93              | 212.69                  | 17.037            |                    |          |
| 13,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 91.72           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,723.11             | 3,510.38              | 212.72                  | 17.502            |                    |          |
| 13,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 93.64           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,822.62             | 3,609.87              | 212.76                  | 17.967            |                    |          |
| 13,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 95.56           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,922.17             | 3,709.37              | 212.79                  | 18.432            |                    |          |
| 13,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 97.49           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,021.73             | 3,808.90              | 212.83                  | 18.897            |                    |          |
| 13,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 99.42           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,121.32             | 3,908.45              | 212.87                  | 19.361            |                    |          |
| 13,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 101.36          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,220.92             | 4,008.02              | 212.90                  | 19.826            |                    |          |
| 13,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 103.30          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,320.54             | 4,107.60              | 212.94                  | 20.290            |                    |          |
| 13,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 105.25          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,420.18             | 4,207.20              | 212.98                  | 20.754            |                    |          |
| 13,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 107.20          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,519.84             | 4,306.82              | 213.02                  | 21.218            |                    |          |
| 13,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 109.15          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,619.51             | 4,406.45              | 213.07                  | 21.681            |                    |          |
| 14,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 111.10          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,719.20             | 4,506.09              | 213.11                  | 22.145            |                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft  |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|----------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 10.00 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |          |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |          |
| 14,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 113.06          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,818.89             | 4,605.74              | 213.15                  | 22.608            |                    |          |
| 14,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 115.03          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,918.61             | 4,705.41              | 213.20                  | 23.071            |                    |          |
| 14,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 116.99          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,018.33             | 4,805.08              | 213.24                  | 23.533            |                    |          |
| 14,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 118.96          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,118.06             | 4,904.77              | 213.29                  | 23.996            |                    |          |
| 14,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 120.93          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,217.80             | 5,004.47              | 213.34                  | 24.458            |                    |          |
| 14,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 122.90          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,317.55             | 5,104.17              | 213.39                  | 24.920            |                    |          |
| 14,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 124.88          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,417.32             | 5,203.88              | 213.44                  | 25.382            |                    |          |
| 14,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 126.86          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,517.09             | 5,303.60              | 213.49                  | 25.843            |                    |          |
| 14,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 128.84          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,616.87             | 5,403.33              | 213.54                  | 26.304            |                    |          |
| 15,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 130.82          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,716.65             | 5,503.06              | 213.59                  | 26.765            |                    |          |
| 15,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 132.80          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,816.45             | 5,602.80              | 213.64                  | 27.225            |                    |          |
| 15,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 134.79          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,916.25             | 5,702.55              | 213.70                  | 27.685            |                    |          |
| 15,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 136.78          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,016.05             | 5,802.30              | 213.75                  | 28.145            |                    |          |
| 15,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 138.76          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,115.87             | 5,902.06              | 213.81                  | 28.605            |                    |          |
| 15,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 140.76          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,215.69             | 6,001.82              | 213.86                  | 29.064            |                    |          |
| 15,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 142.75          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,315.51             | 6,101.59              | 213.92                  | 29.523            |                    |          |
| 15,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 144.74          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,415.34             | 6,201.36              | 213.98                  | 29.981            |                    |          |
| 15,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 146.74          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,515.18             | 6,301.14              | 214.04                  | 30.440            |                    |          |
| 15,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 148.73          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,615.02             | 6,400.92              | 214.10                  | 30.897            |                    |          |
| 16,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 150.73          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,714.86             | 6,500.71              | 214.16                  | 31.355            |                    |          |
| 16,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 152.73          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,814.71             | 6,600.50              | 214.22                  | 31.812            |                    |          |
| 16,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 154.73          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,914.57             | 6,700.29              | 214.28                  | 32.269            |                    |          |
| 16,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 156.73          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,014.43             | 6,800.08              | 214.34                  | 32.725            |                    |          |
| 16,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 158.74          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,114.29             | 6,899.88              | 214.41                  | 33.181            |                    |          |
| 16,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 160.74          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,214.16             | 6,999.68              | 214.47                  | 33.637            |                    |          |
| 16,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 162.74          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,314.03             | 7,099.49              | 214.54                  | 34.092            |                    |          |
| 16,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 164.75          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,413.90             | 7,199.30              | 214.60                  | 34.547            |                    |          |
| 16,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 166.76          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,513.78             | 7,299.11              | 214.67                  | 35.002            |                    |          |
| 16,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 168.77          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,613.66             | 7,398.92              | 214.74                  | 35.456            |                    |          |
| 17,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 170.77          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,713.54             | 7,498.73              | 214.80                  | 35.910            |                    |          |
| 17,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 172.78          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,813.42             | 7,598.55              | 214.87                  | 36.363            |                    |          |
| 17,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 174.79          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,913.31             | 7,698.37              | 214.94                  | 36.816            |                    |          |
| 17,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 176.81          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,013.21             | 7,798.19              | 215.01                  | 37.268            |                    |          |
| 17,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 178.82          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,113.10             | 7,898.02              | 215.09                  | 37.720            |                    |          |
| 17,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 180.83          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,213.00             | 7,997.84              | 215.16                  | 38.172            |                    |          |
| 17,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 182.84          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,312.90             | 8,097.67              | 215.23                  | 38.623            |                    |          |
| 17,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 184.86          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,412.80             | 8,197.50              | 215.30                  | 39.074            |                    |          |
| 17,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 186.87          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,512.70             | 8,297.33              | 215.38                  | 39.525            |                    |          |
| 17,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 188.89          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,612.61             | 8,397.16              | 215.45                  | 39.975            |                    |          |
| 18,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 190.91          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,712.52             | 8,496.99              | 215.53                  | 40.424            |                    |          |
| 18,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 192.92          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,812.43             | 8,596.83              | 215.60                  | 40.873            |                    |          |
| 18,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 194.94          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,912.34             | 8,696.66              | 215.68                  | 41.322            |                    |          |
| 18,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 196.96          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,012.26             | 8,796.50              | 215.76                  | 41.770            |                    |          |
| 18,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 198.98          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,112.17             | 8,896.34              | 215.84                  | 42.218            |                    |          |
| 18,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 201.00          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,212.09             | 8,996.18              | 215.91                  | 42.665            |                    |          |
| 18,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 203.02          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,312.01             | 9,096.02              | 215.99                  | 43.112            |                    |          |
| 18,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 205.04          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,411.93             | 9,195.86              | 216.07                  | 43.559            |                    |          |
| 18,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 207.06          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,511.86             | 9,295.70              | 216.16                  | 44.005            |                    |          |
| 18,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 209.08          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,611.78             | 9,395.54              | 216.24                  | 44.450            |                    |          |
| 19,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 211.10          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,711.71             | 9,495.39              | 216.32                  | 44.895            |                    |          |
| 19,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 213.12          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,811.64             | 9,595.23              | 216.40                  | 45.340            |                    |          |
| 19,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 215.15          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,911.56             | 9,695.08              | 216.48                  | 45.784            |                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                       | 0.00                | 11.50               | 11.50               | 0.50            | 0.50        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             |                       |                         |                   |                    |         |
| 100.00                     | 100.00              | 111.50              | 111.50              | 0.52            | 0.53        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,557.66              | 1.05                    | 1,487.726         |                    |         |
| 200.00                     | 200.00              | 211.50              | 211.50              | 0.70            | 0.73        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,557.27              | 1.43                    | 1,087.164         |                    |         |
| 300.00                     | 300.00              | 311.50              | 311.50              | 0.99            | 1.02        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,556.70              | 2.01                    | 775.310           |                    |         |
| 400.00                     | 400.00              | 411.50              | 411.50              | 1.31            | 1.35        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,556.05              | 2.66                    | 586.781           |                    |         |
| 500.00                     | 500.00              | 511.50              | 511.50              | 1.65            | 1.69        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,555.38              | 3.33                    | 467.870           |                    |         |
| 600.00                     | 600.00              | 611.50              | 611.50              | 1.99            | 2.03        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,554.69              | 4.02                    | 387.629           |                    |         |
| 700.00                     | 700.00              | 711.50              | 711.50              | 2.34            | 2.38        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,553.99              | 4.72                    | 330.310           |                    |         |
| 800.00                     | 800.00              | 811.50              | 811.50              | 2.69            | 2.73        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,553.29              | 5.42                    | 287.494           |                    |         |
| 900.00                     | 900.00              | 911.50              | 911.50              | 3.04            | 3.08        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,552.58              | 6.13                    | 254.368           |                    |         |
| 1,000.00                   | 1,000.00            | 1,011.50            | 1,011.50            | 3.40            | 3.44        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,551.87              | 6.84                    | 228.011           |                    |         |
| 1,100.00                   | 1,100.00            | 1,111.50            | 1,111.50            | 3.75            | 3.79        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,551.16              | 7.55                    | 206.559           |                    |         |
| 1,200.00                   | 1,200.00            | 1,211.50            | 1,211.50            | 4.11            | 4.15        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,550.45              | 8.26                    | 188.769           |                    |         |
| 1,300.00                   | 1,300.00            | 1,311.50            | 1,311.50            | 4.46            | 4.51        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,549.74              | 8.97                    | 173.782           |                    |         |
| 1,400.00                   | 1,400.00            | 1,411.50            | 1,411.50            | 4.82            | 4.86        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,549.02              | 9.68                    | 160.988           |                    |         |
| 1,500.00                   | 1,500.00            | 1,511.50            | 1,511.50            | 5.18            | 5.22        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,548.31              | 10.40                   | 149.941           |                    |         |
| 1,600.00                   | 1,600.00            | 1,611.50            | 1,611.50            | 5.53            | 5.58        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,547.60              | 11.11                   | 140.306           |                    |         |
| 1,700.00                   | 1,700.00            | 1,711.50            | 1,711.50            | 5.89            | 5.93        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,546.88              | 11.82                   | 131.831           |                    |         |
| 1,800.00                   | 1,800.00            | 1,811.50            | 1,811.50            | 6.25            | 6.29        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,546.17              | 12.54                   | 124.318           |                    |         |
| 1,900.00                   | 1,900.00            | 1,911.50            | 1,911.50            | 6.61            | 6.65        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,545.45              | 13.25                   | 117.613           |                    |         |
| 1,912.34                   | 1,912.34            | 1,923.84            | 1,923.84            | 6.65            | 6.69        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,545.37              | 13.34                   | 116.836           |                    |         |
| 2,000.00                   | 2,000.00            | 2,009.08            | 2,009.08            | 6.96            | 7.00        | -0.13                 | 1,558.71                          | -3.48      | 1,558.72             | 1,544.76              | 13.96                   | 111.663           |                    |         |
| 2,100.00                   | 2,099.99            | 2,088.04            | 2,088.04            | 7.32            | 7.28        | 12.65                 | 1,559.37                          | -3.62      | 1,558.69             | 1,544.10              | 14.60                   | 106.779           |                    |         |
| 2,200.00                   | 2,199.96            | 2,167.00            | 2,166.98            | 7.68            | 7.56        | 12.66                 | 1,561.09                          | -3.97      | 1,558.32             | 1,543.09              | 15.23                   | 102.298           |                    |         |
| 2,300.00                   | 2,299.86            | 2,245.96            | 2,245.89            | 8.04            | 7.84        | 12.67                 | 1,563.87                          | -4.55      | 1,557.59             | 1,541.73              | 15.87                   | 98.169            |                    |         |
| 2,400.00                   | 2,399.68            | 2,324.94            | 2,324.76            | 8.39            | 8.12        | 12.68                 | 1,567.72                          | -5.35      | 1,556.51             | 1,540.02              | 16.50                   | 94.349            |                    |         |
| 2,500.00                   | 2,499.37            | 2,403.92            | 2,403.58            | 8.75            | 8.41        | 12.69                 | 1,572.64                          | -6.37      | 1,555.08             | 1,537.95              | 17.13                   | 90.803            |                    |         |
| 2,600.00                   | 2,598.90            | 2,482.92            | 2,482.34            | 9.11            | 8.69        | 12.71                 | 1,578.62                          | -7.62      | 1,553.30             | 1,535.54              | 17.75                   | 87.499            |                    |         |
| 2,700.00                   | 2,698.26            | 2,561.93            | 2,561.03            | 9.46            | 8.97        | 12.74                 | 1,585.66                          | -9.08      | 1,551.16             | 1,532.78              | 18.38                   | 84.411            |                    |         |
| 2,800.00                   | 2,797.40            | 2,640.96            | 2,639.62            | 9.82            | 9.25        | 12.76                 | 1,593.77                          | -10.76     | 1,548.67             | 1,529.67              | 19.00                   | 81.517            |                    |         |
| 2,900.00                   | 2,896.30            | 2,720.01            | 2,718.12            | 10.18           | 9.54        | 12.80                 | 1,602.94                          | -12.67     | 1,545.83             | 1,526.21              | 19.62                   | 78.796            |                    |         |
| 3,000.00                   | 2,994.93            | 2,800.00            | 2,797.40            | 10.54           | 9.82        | 12.83                 | 1,613.30                          | -14.82     | 1,542.64             | 1,522.40              | 20.24                   | 76.214            |                    |         |
| 3,100.00                   | 3,093.26            | 2,878.20            | 2,874.76            | 10.90           | 10.10       | 12.87                 | 1,624.47                          | -17.14     | 1,539.10             | 1,518.25              | 20.85                   | 73.805            |                    |         |
| 3,195.07                   | 3,186.42            | 2,953.43            | 2,949.04            | 11.24           | 10.37       | 12.91                 | 1,636.19                          | -19.58     | 1,535.41             | 1,513.98              | 21.44                   | 71.618            |                    |         |
| 3,200.00                   | 3,191.25            | 2,957.34            | 2,952.89            | 11.26           | 10.38       | 12.91                 | 1,636.83                          | -19.71     | 1,535.22             | 1,513.75              | 21.47                   | 71.507            |                    |         |
| 3,300.00                   | 3,289.08            | 3,036.53            | 3,030.89            | 11.62           | 10.67       | 12.95                 | 1,650.25                          | -22.50     | 1,531.91             | 1,509.83              | 22.08                   | 69.368            |                    |         |
| 3,400.00                   | 3,386.91            | 3,120.30            | 3,108.24            | 11.98           | 10.97       | 12.97                 | 1,664.64                          | -25.49     | 1,529.97             | 1,507.25              | 22.71                   | 67.360            |                    |         |
| 3,500.00                   | 3,484.74            | 3,215.26            | 3,206.34            | 12.35           | 11.31       | 12.99                 | 1,683.62                          | -29.43     | 1,528.73             | 1,505.30              | 23.43                   | 65.260            |                    |         |
| 3,600.00                   | 3,582.58            | 3,315.25            | 3,304.43            | 12.72           | 11.67       | 13.02                 | 1,702.60                          | -33.37     | 1,527.49             | 1,503.33              | 24.16                   | 63.229            |                    |         |
| 3,700.00                   | 3,680.41            | 3,415.24            | 3,402.52            | 13.09           | 12.04       | 13.04                 | 1,721.58                          | -37.32     | 1,526.25             | 1,501.36              | 24.89                   | 61.312            |                    |         |
| 3,800.00                   | 3,778.24            | 3,515.23            | 3,500.62            | 13.46           | 12.40       | 13.07                 | 1,740.56                          | -41.26     | 1,525.02             | 1,499.38              | 25.63                   | 59.499            |                    |         |
| 3,900.00                   | 3,876.08            | 3,615.22            | 3,598.71            | 13.83           | 12.77       | 13.09                 | 1,759.54                          | -45.20     | 1,523.78             | 1,497.41              | 26.37                   | 57.784            |                    |         |
| 4,000.00                   | 3,973.91            | 3,715.21            | 3,696.80            | 14.21           | 13.14       | 13.12                 | 1,778.51                          | -49.14     | 1,522.54             | 1,495.43              | 27.11                   | 56.158            |                    |         |
| 4,100.00                   | 4,071.74            | 3,815.20            | 3,794.90            | 14.58           | 13.51       | 13.14                 | 1,797.49                          | -53.09     | 1,521.31             | 1,493.45              | 27.85                   | 54.616            |                    |         |
| 4,200.00                   | 4,169.57            | 3,915.19            | 3,892.99            | 14.96           | 13.88       | 13.17                 | 1,816.47                          | -57.03     | 1,520.07             | 1,491.47              | 28.60                   | 53.150            |                    |         |
| 4,300.00                   | 4,267.41            | 4,015.18            | 3,991.08            | 15.33           | 14.25       | 13.19                 | 1,835.45                          | -60.97     | 1,518.83             | 1,489.49              | 29.35                   | 51.757            |                    |         |
| 4,400.00                   | 4,365.24            | 4,115.18            | 4,089.18            | 15.71           | 14.63       | 13.21                 | 1,854.43                          | -64.91     | 1,517.60             | 1,487.50              | 30.09                   | 50.430            |                    |         |
| 4,500.00                   | 4,463.07            | 4,215.17            | 4,187.27            | 16.09           | 15.00       | 13.24                 | 1,873.41                          | -68.86     | 1,516.36             | 1,485.52              | 30.84                   | 49.166            |                    |         |
| 4,600.00                   | 4,560.90            | 4,315.16            | 4,285.36            | 16.47           | 15.37       | 13.26                 | 1,892.38                          | -72.80     | 1,515.13             | 1,483.54              | 31.59                   | 47.960            |                    |         |
| 4,700.00                   | 4,658.74            | 4,415.15            | 4,383.46            | 16.85           | 15.75       | 13.29                 | 1,911.36                          | -76.74     | 1,513.89             | 1,481.55              | 32.34                   | 46.808            |                    |         |
| 4,800.00                   | 4,756.57            | 4,515.14            | 4,481.55            | 17.23           | 16.12       | 13.31                 | 1,930.34                          | -80.68     | 1,512.66             | 1,479.56              | 33.09                   | 45.707            |                    |         |
| 4,900.00                   | 4,854.40            | 4,615.13            | 4,579.65            | 17.61           | 16.50       | 13.34                 | 1,949.32                          | -84.63     | 1,511.42             | 1,477.58              | 33.85                   | 44.654            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,000.00                   | 4,952.23            | 4,715.12            | 4,677.74            | 17.99           | 16.88       | 13.36                 | 1,968.30                          | -88.57     | 1,510.19             | 1,475.59              | 34.60                   | 43.645            |                    |         |
| 5,100.00                   | 5,050.07            | 4,815.11            | 4,775.83            | 18.37           | 17.25       | 13.39                 | 1,987.28                          | -92.51     | 1,508.96             | 1,473.60              | 35.36                   | 42.678            |                    |         |
| 5,200.00                   | 5,147.90            | 4,915.10            | 4,873.93            | 18.75           | 17.63       | 13.41                 | 2,006.25                          | -96.46     | 1,507.72             | 1,471.61              | 36.11                   | 41.751            |                    |         |
| 5,300.00                   | 5,245.73            | 5,015.09            | 4,972.02            | 19.14           | 18.01       | 13.44                 | 2,025.23                          | -100.40    | 1,506.49             | 1,469.62              | 36.87                   | 40.862            |                    |         |
| 5,400.00                   | 5,343.56            | 5,115.08            | 5,070.11            | 19.52           | 18.39       | 13.46                 | 2,044.21                          | -104.34    | 1,505.26             | 1,467.63              | 37.62                   | 40.007            |                    |         |
| 5,500.00                   | 5,441.40            | 5,215.07            | 5,168.21            | 19.90           | 18.77       | 13.49                 | 2,063.19                          | -108.28    | 1,504.03             | 1,465.64              | 38.38                   | 39.185            |                    |         |
| 5,600.00                   | 5,539.23            | 5,315.06            | 5,266.30            | 20.29           | 19.15       | 13.51                 | 2,082.17                          | -112.23    | 1,502.79             | 1,463.65              | 39.14                   | 38.395            |                    |         |
| 5,700.00                   | 5,637.06            | 5,415.05            | 5,364.39            | 20.67           | 19.53       | 13.54                 | 2,101.15                          | -116.17    | 1,501.56             | 1,461.66              | 39.90                   | 37.634            |                    |         |
| 5,800.00                   | 5,734.90            | 5,515.04            | 5,462.49            | 21.05           | 19.91       | 13.56                 | 2,120.12                          | -120.11    | 1,500.33             | 1,459.67              | 40.66                   | 36.901            |                    |         |
| 5,900.00                   | 5,832.73            | 5,615.03            | 5,560.58            | 21.44           | 20.29       | 13.59                 | 2,139.10                          | -124.05    | 1,499.10             | 1,457.68              | 41.42                   | 36.194            |                    |         |
| 6,000.00                   | 5,930.56            | 5,715.02            | 5,658.67            | 21.83           | 20.67       | 13.61                 | 2,158.08                          | -128.00    | 1,497.87             | 1,455.69              | 42.18                   | 35.512            |                    |         |
| 6,100.00                   | 6,028.39            | 5,815.01            | 5,756.77            | 22.21           | 21.05       | 13.64                 | 2,177.06                          | -131.94    | 1,496.64             | 1,453.70              | 42.94                   | 34.855            |                    |         |
| 6,200.00                   | 6,126.23            | 5,915.00            | 5,854.86            | 22.60           | 21.43       | 13.67                 | 2,196.04                          | -135.88    | 1,495.41             | 1,451.71              | 43.70                   | 34.219            |                    |         |
| 6,300.00                   | 6,224.06            | 6,014.99            | 5,952.95            | 22.98           | 21.81       | 13.69                 | 2,215.02                          | -139.82    | 1,494.18             | 1,449.71              | 44.46                   | 33.605            |                    |         |
| 6,400.00                   | 6,321.89            | 6,114.98            | 6,051.05            | 23.37           | 22.20       | 13.72                 | 2,233.99                          | -143.77    | 1,492.95             | 1,447.72              | 45.22                   | 33.012            |                    |         |
| 6,500.00                   | 6,419.72            | 6,214.97            | 6,149.14            | 23.76           | 22.58       | 13.74                 | 2,252.97                          | -147.71    | 1,491.72             | 1,445.73              | 45.99                   | 32.438            |                    |         |
| 6,600.00                   | 6,517.56            | 6,314.96            | 6,247.23            | 24.14           | 22.96       | 13.77                 | 2,271.95                          | -151.65    | 1,490.49             | 1,443.74              | 46.75                   | 31.882            |                    |         |
| 6,700.00                   | 6,615.39            | 6,414.95            | 6,345.33            | 24.53           | 23.34       | 13.79                 | 2,290.93                          | -155.59    | 1,489.26             | 1,441.75              | 47.51                   | 31.345            |                    |         |
| 6,800.00                   | 6,713.22            | 6,514.94            | 6,443.42            | 24.92           | 23.73       | 13.82                 | 2,309.91                          | -159.54    | 1,488.03             | 1,439.76              | 48.28                   | 30.823            |                    |         |
| 6,900.00                   | 6,811.05            | 6,614.93            | 6,541.51            | 25.30           | 24.11       | 13.84                 | 2,328.89                          | -163.48    | 1,486.80             | 1,437.76              | 49.04                   | 30.318            |                    |         |
| 7,000.00                   | 6,908.89            | 6,714.92            | 6,639.61            | 25.69           | 24.49       | 13.87                 | 2,347.86                          | -167.42    | 1,485.57             | 1,435.77              | 49.80                   | 29.829            |                    |         |
| 7,100.00                   | 7,006.72            | 6,814.91            | 6,737.70            | 26.08           | 24.88       | 13.90                 | 2,366.84                          | -171.36    | 1,484.35             | 1,433.78              | 50.57                   | 29.354            |                    |         |
| 7,200.00                   | 7,104.55            | 6,914.90            | 6,835.79            | 26.47           | 25.26       | 13.92                 | 2,385.82                          | -175.31    | 1,483.12             | 1,431.79              | 51.33                   | 28.892            |                    |         |
| 7,216.87                   | 7,121.05            | 6,931.77            | 6,852.34            | 26.53           | 25.32       | 13.93                 | 2,389.02                          | -175.97    | 1,482.91             | 1,431.45              | 51.46                   | 28.816            |                    |         |
| 7,265.16                   | 7,168.36            | 6,980.06            | 6,899.72            | 26.72           | 25.51       | 13.93                 | 2,398.19                          | -177.88    | 1,482.62             | 1,430.79              | 51.83                   | 28.605 CC         |                    |         |
| 7,300.00                   | 7,202.57            | 7,014.90            | 6,933.89            | 26.85           | 25.64       | 13.94                 | 2,404.80                          | -179.25    | 1,482.77             | 1,430.67              | 52.10                   | 28.462            |                    |         |
| 7,400.00                   | 7,301.06            | 7,114.87            | 7,031.97            | 27.23           | 26.03       | 13.94                 | 2,423.78                          | -183.19    | 1,484.93             | 1,432.07              | 52.85                   | 28.094            |                    |         |
| 7,500.00                   | 7,399.97            | 7,214.76            | 7,129.96            | 27.61           | 26.41       | 13.93                 | 2,442.73                          | -187.13    | 1,489.62             | 1,436.01              | 53.61                   | 27.787            |                    |         |
| 7,600.00                   | 7,499.23            | 7,314.48            | 7,227.79            | 27.98           | 26.79       | 13.90                 | 2,461.66                          | -191.06    | 1,496.85             | 1,442.50              | 54.36                   | 27.538            |                    |         |
| 7,700.00                   | 7,598.77            | 7,413.98            | 7,325.40            | 28.34           | 27.18       | 13.85                 | 2,480.55                          | -194.99    | 1,506.62             | 1,451.52              | 55.10                   | 27.345            |                    |         |
| 7,800.00                   | 7,698.53            | 7,513.18            | 7,422.73            | 28.70           | 27.56       | 13.80                 | 2,499.38                          | -198.90    | 1,518.92             | 1,463.09              | 55.83                   | 27.206            |                    |         |
| 7,900.00                   | 7,798.44            | 7,612.02            | 7,519.69            | 29.05           | 27.94       | 13.73                 | 2,518.14                          | -202.79    | 1,533.74             | 1,477.18              | 56.56                   | 27.119            |                    |         |
| 8,000.00                   | 7,898.42            | 7,710.43            | 7,616.23            | 29.39           | 28.32       | 13.65                 | 2,536.82                          | -206.68    | 1,551.08             | 1,493.80              | 57.27                   | 27.082            |                    |         |
| 8,013.58                   | 7,912.00            | 7,723.76            | 7,629.30            | 29.43           | 28.37       | 0.86                  | 2,539.34                          | -207.20    | 1,553.62             | 1,496.25              | 57.37                   | 27.080            |                    |         |
| 8,100.00                   | 7,998.42            | 7,808.54            | 7,712.48            | 29.73           | 28.69       | 0.72                  | 2,555.44                          | -210.54    | 1,569.99             | 1,512.01              | 57.99                   | 27.076            |                    |         |
| 8,200.00                   | 8,098.42            | 7,906.64            | 7,808.72            | 30.07           | 29.07       | 0.57                  | 2,574.06                          | -214.41    | 1,588.94             | 1,530.25              | 58.70                   | 27.070            |                    |         |
| 8,300.00                   | 8,198.42            | 8,004.74            | 7,904.96            | 30.41           | 29.45       | 0.43                  | 2,592.68                          | -218.28    | 1,607.90             | 1,548.50              | 59.41                   | 27.065            |                    |         |
| 8,363.62                   | 8,262.04            | 8,067.16            | 7,966.19            | 30.62           | 29.69       | 0.33                  | 2,604.52                          | -220.74    | 1,619.97             | 1,560.11              | 59.86                   | 27.062            |                    |         |
| 8,400.00                   | 8,298.40            | 8,102.78            | 8,001.14            | 30.75           | 29.83       | -88.72                | 2,611.28                          | -222.15    | 1,626.86             | 1,566.74              | 60.12                   | 27.061            |                    |         |
| 8,450.00                   | 8,348.10            | 8,151.33            | 8,048.77            | 30.91           | 30.01       | -88.02                | 2,620.50                          | -224.06    | 1,636.25             | 1,575.79              | 60.46                   | 27.063            |                    |         |
| 8,500.00                   | 8,397.14            | 8,200.93            | 8,095.60            | 31.07           | 30.20       | -87.47                | 2,629.56                          | -225.94    | 1,645.56             | 1,584.75              | 60.81                   | 27.062            |                    |         |
| 8,550.00                   | 8,445.15            | 8,245.64            | 8,141.29            | 31.23           | 30.38       | -87.05                | 2,638.40                          | -227.78    | 1,654.79             | 1,593.66              | 61.13                   | 27.069            |                    |         |
| 8,600.00                   | 8,491.77            | 8,290.69            | 8,185.48            | 31.38           | 30.55       | -86.75                | 2,646.95                          | -229.55    | 1,663.99             | 1,602.53              | 61.46                   | 27.076            |                    |         |
| 8,650.00                   | 8,536.65            | 8,333.87            | 8,227.84            | 31.52           | 30.72       | -86.53                | 2,655.14                          | -231.26    | 1,673.22             | 1,611.45              | 61.77                   | 27.088            |                    |         |
| 8,700.00                   | 8,579.43            | 8,377.12            | 8,270.28            | 31.66           | 30.88       | -86.41                | 2,663.36                          | -232.78    | 1,682.57             | 1,620.49              | 62.08                   | 27.101            |                    |         |
| 8,750.00                   | 8,619.80            | 8,426.52            | 8,318.74            | 31.80           | 31.07       | -86.42                | 2,672.75                          | -231.34    | 1,691.96             | 1,629.53              | 62.44                   | 27.099            |                    |         |
| 8,800.00                   | 8,657.44            | 8,479.23            | 8,370.11            | 31.93           | 31.26       | -86.49                | 2,682.74                          | -225.12    | 1,701.29             | 1,638.48              | 62.81                   | 27.088            |                    |         |
| 8,850.00                   | 8,692.08            | 8,535.94            | 8,424.48            | 32.06           | 31.45       | -86.63                | 2,693.34                          | -213.10    | 1,710.46             | 1,647.27              | 63.19                   | 27.068            |                    |         |
| 8,900.00                   | 8,723.44            | 8,597.49            | 8,481.84            | 32.19           | 31.65       | -86.85                | 2,704.57                          | -193.92    | 1,719.38             | 1,655.79              | 63.59                   | 27.038            |                    |         |
| 8,950.00                   | 8,751.29            | 8,664.85            | 8,541.90            | 32.34           | 31.85       | -87.17                | 2,716.37                          | -165.89    | 1,727.91             | 1,663.90              | 64.00                   | 26.998            |                    |         |
| 9,000.00                   | 8,775.42            | 8,739.12            | 8,603.86            | 32.50           | 32.05       | -87.57                | 2,728.60                          | -126.91    | 1,735.88             | 1,671.46              | 64.42                   | 26.945            |                    |         |
| 9,050.00                   | 8,795.64            | 8,821.41            | 8,666.07            | 32.67           | 32.25       | -88.04                | 2,740.96                          | -74.60     | 1,743.11             | 1,678.25              | 64.86                   | 26.876            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |        | Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 331H - Wellbore #1 - Permit Plan 1 |         | Offset Site Error: 0.00 ft |  |
|----------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|--------|--------------------------------------------------------------------------------------|---------|----------------------------|--|
| Survey Program: 0-MWD+IFR1 |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |        | Offset Well Error: 0.50 ft                                                           |         |                            |  |
| Reference                  |                | Offset         |                | Semi Major Axis |        |                   | Distance               |                 |                  |                    |                   |        |                                                                                      | Warning |                            |  |
| Measured Depth             | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor |        |                                                                                      |         |                            |  |
| (ft)                       | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft)      | (ft)             | (ft)               | (ft)              |        |                                                                                      |         |                            |  |
| 9,100.00                   | 8,811.80       | 8,912.59       | 8,725.62       | 32.87           | 32.45  | -88.56            | 2,752.90               | -6.71           | 1,749.35         | 1,684.04           | 65.32             | 26.782 |                                                                                      |         |                            |  |
| 9,150.00                   | 8,823.77       | 9,012.96       | 8,778.01       | 33.10           | 32.72  | -89.07            | 2,763.55               | 78.08           | 1,754.35         | 1,688.50           | 65.84             | 26.644 |                                                                                      |         |                            |  |
| 9,200.00                   | 8,831.47       | 9,121.67       | 8,817.44       | 33.34           | 33.15  | -89.50            | 2,771.79               | 178.87          | 1,757.82         | 1,691.33           | 66.49             | 26.438 |                                                                                      |         |                            |  |
| 9,250.00                   | 8,834.84       | 9,236.36       | 8,838.02       | 33.60           | 33.71  | -89.75            | 2,776.44               | 291.42          | 1,759.54         | 1,692.25           | 67.29             | 26.147 |                                                                                      |         |                            |  |
| 9,263.62                   | 8,835.00       | 9,268.17       | 8,839.77       | 33.67           | 33.88  | -89.78            | 2,776.97               | 323.17          | 1,759.68         | 1,692.14           | 67.54             | 26.054 |                                                                                      |         |                            |  |
| 9,300.00                   | 8,835.00       | 9,313.89       | 8,840.00       | 33.88           | 34.15  | -89.79            | 2,777.29               | 368.89          | 1,759.70         | 1,691.68           | 68.02             | 25.870 |                                                                                      |         |                            |  |
| 9,400.00                   | 8,835.00       | 9,413.89       | 8,840.00       | 34.53           | 34.80  | -89.79            | 2,777.88               | 468.88          | 1,759.70         | 1,690.36           | 69.34             | 25.379 |                                                                                      |         |                            |  |
| 9,500.00                   | 8,835.00       | 9,513.89       | 8,840.00       | 35.30           | 35.56  | -89.79            | 2,778.47               | 568.88          | 1,759.69         | 1,688.83           | 70.87             | 24.831 |                                                                                      |         |                            |  |
| 9,600.00                   | 8,835.00       | 9,613.89       | 8,840.00       | 36.17           | 36.42  | -89.79            | 2,779.07               | 668.88          | 1,759.69         | 1,687.10           | 72.59             | 24.241 |                                                                                      |         |                            |  |
| 9,700.00                   | 8,835.00       | 9,713.89       | 8,840.00       | 37.13           | 37.37  | -89.79            | 2,779.66               | 768.88          | 1,759.69         | 1,685.18           | 74.50             | 23.618 |                                                                                      |         |                            |  |
| 9,800.00                   | 8,835.00       | 9,813.89       | 8,840.00       | 38.18           | 38.40  | -89.79            | 2,780.25               | 868.88          | 1,759.69         | 1,683.10           | 76.59             | 22.976 |                                                                                      |         |                            |  |
| 9,900.00                   | 8,835.00       | 9,913.89       | 8,840.00       | 39.31           | 39.52  | -89.79            | 2,780.85               | 968.88          | 1,759.68         | 1,680.86           | 78.83             | 22.323 |                                                                                      |         |                            |  |
| 10,000.00                  | 8,835.00       | 10,013.89      | 8,840.00       | 40.51           | 40.70  | -89.79            | 2,781.44               | 1,068.87        | 1,759.68         | 1,678.47           | 81.21             | 21.667 |                                                                                      |         |                            |  |
| 10,100.00                  | 8,835.00       | 10,113.89      | 8,840.00       | 41.78           | 41.95  | -89.79            | 2,782.04               | 1,168.87        | 1,759.68         | 1,675.95           | 83.73             | 21.016 |                                                                                      |         |                            |  |
| 10,200.00                  | 8,835.00       | 10,213.89      | 8,840.00       | 43.10           | 43.26  | -89.79            | 2,782.63               | 1,268.87        | 1,759.68         | 1,673.31           | 86.37             | 20.374 |                                                                                      |         |                            |  |
| 10,300.00                  | 8,835.00       | 10,313.89      | 8,840.00       | 44.49           | 44.63  | -89.79            | 2,783.22               | 1,368.87        | 1,759.67         | 1,670.56           | 89.12             | 19.746 |                                                                                      |         |                            |  |
| 10,400.00                  | 8,835.00       | 10,413.89      | 8,840.00       | 45.92           | 46.05  | -89.79            | 2,783.82               | 1,468.87        | 1,759.67         | 1,667.71           | 91.97             | 19.134 |                                                                                      |         |                            |  |
| 10,500.00                  | 8,835.00       | 10,513.89      | 8,840.00       | 47.39           | 47.51  | -89.79            | 2,784.41               | 1,568.87        | 1,759.67         | 1,664.77           | 94.90             | 18.542 |                                                                                      |         |                            |  |
| 10,600.00                  | 8,835.00       | 10,613.89      | 8,840.00       | 48.91           | 49.02  | -89.79            | 2,785.00               | 1,668.86        | 1,759.67         | 1,661.74           | 97.93             | 17.969 |                                                                                      |         |                            |  |
| 10,700.00                  | 8,835.00       | 10,713.89      | 8,840.00       | 50.47           | 50.56  | -89.79            | 2,785.60               | 1,768.86        | 1,759.66         | 1,658.64           | 101.02            | 17.418 |                                                                                      |         |                            |  |
| 10,800.00                  | 8,835.00       | 10,813.89      | 8,840.00       | 52.06           | 52.14  | -89.79            | 2,786.19               | 1,868.86        | 1,759.66         | 1,655.47           | 104.19            | 16.889 |                                                                                      |         |                            |  |
| 10,900.00                  | 8,835.00       | 10,913.89      | 8,840.00       | 53.68           | 53.74  | -89.79            | 2,786.78               | 1,968.86        | 1,759.66         | 1,652.24           | 107.42            | 16.381 |                                                                                      |         |                            |  |
| 11,000.00                  | 8,835.00       | 11,013.89      | 8,840.00       | 55.32           | 55.38  | -89.79            | 2,787.38               | 2,068.86        | 1,759.66         | 1,648.95           | 110.70            | 15.895 |                                                                                      |         |                            |  |
| 11,100.00                  | 8,835.00       | 11,113.89      | 8,840.00       | 57.00           | 57.05  | -89.79            | 2,787.97               | 2,168.85        | 1,759.65         | 1,645.61           | 114.04            | 15.430 |                                                                                      |         |                            |  |
| 11,200.00                  | 8,835.00       | 11,213.89      | 8,840.00       | 58.70           | 58.73  | -89.79            | 2,788.56               | 2,268.85        | 1,759.65         | 1,642.22           | 117.43            | 14.985 |                                                                                      |         |                            |  |
| 11,300.00                  | 8,835.00       | 11,313.89      | 8,840.00       | 60.41           | 60.44  | -89.79            | 2,789.16               | 2,368.85        | 1,759.65         | 1,638.79           | 120.86            | 14.560 |                                                                                      |         |                            |  |
| 11,400.00                  | 8,835.00       | 11,413.89      | 8,840.00       | 62.15           | 62.17  | -89.79            | 2,789.75               | 2,468.85        | 1,759.65         | 1,635.32           | 124.33            | 14.153 |                                                                                      |         |                            |  |
| 11,500.00                  | 8,835.00       | 11,513.89      | 8,840.00       | 63.91           | 63.92  | -89.79            | 2,790.34               | 2,568.85        | 1,759.64         | 1,631.81           | 127.83            | 13.765 |                                                                                      |         |                            |  |
| 11,600.00                  | 8,835.00       | 11,613.89      | 8,840.00       | 65.69           | 65.69  | -89.79            | 2,790.94               | 2,668.85        | 1,759.64         | 1,628.27           | 131.37            | 13.394 |                                                                                      |         |                            |  |
| 11,700.00                  | 8,835.00       | 11,713.89      | 8,840.00       | 67.47           | 67.47  | -89.79            | 2,791.53               | 2,768.84        | 1,759.64         | 1,624.69           | 134.95            | 13.040 |                                                                                      |         |                            |  |
| 11,800.00                  | 8,835.00       | 11,813.89      | 8,840.00       | 69.28           | 69.27  | -89.79            | 2,792.12               | 2,868.84        | 1,759.64         | 1,621.09           | 138.55            | 12.701 |                                                                                      |         |                            |  |
| 11,900.00                  | 8,835.00       | 11,913.89      | 8,840.00       | 71.09           | 71.08  | -89.79            | 2,792.72               | 2,968.84        | 1,759.63         | 1,617.46           | 142.17            | 12.377 |                                                                                      |         |                            |  |
| 12,000.00                  | 8,835.00       | 12,013.89      | 8,840.00       | 72.92           | 72.90  | -89.79            | 2,793.31               | 3,068.84        | 1,759.63         | 1,613.81           | 145.83            | 12.067 |                                                                                      |         |                            |  |
| 12,100.00                  | 8,835.00       | 12,113.89      | 8,840.00       | 74.76           | 74.73  | -89.79            | 2,793.90               | 3,168.84        | 1,759.63         | 1,610.13           | 149.50            | 11.770 |                                                                                      |         |                            |  |
| 12,200.00                  | 8,835.00       | 12,213.89      | 8,840.00       | 76.61           | 76.58  | -89.79            | 2,794.50               | 3,268.84        | 1,759.63         | 1,606.43           | 153.20            | 11.486 |                                                                                      |         |                            |  |
| 12,300.00                  | 8,835.00       | 12,313.89      | 8,840.00       | 78.47           | 78.43  | -89.79            | 2,795.09               | 3,368.83        | 1,759.62         | 1,602.71           | 156.91            | 11.214 |                                                                                      |         |                            |  |
| 12,400.00                  | 8,835.00       | 12,413.89      | 8,840.00       | 80.34           | 80.30  | -89.79            | 2,795.68               | 3,468.83        | 1,759.62         | 1,598.98           | 160.65            | 10.953 |                                                                                      |         |                            |  |
| 12,500.00                  | 8,835.00       | 12,513.89      | 8,840.00       | 82.22           | 82.17  | -89.79            | 2,796.28               | 3,568.83        | 1,759.62         | 1,595.22           | 164.40            | 10.704 |                                                                                      |         |                            |  |
| 12,600.00                  | 8,835.00       | 12,613.89      | 8,840.00       | 84.11           | 84.05  | -89.79            | 2,796.87               | 3,668.83        | 1,759.62         | 1,591.45           | 168.16            | 10.464 |                                                                                      |         |                            |  |
| 12,700.00                  | 8,835.00       | 12,713.89      | 8,840.00       | 86.00           | 85.94  | -89.79            | 2,797.46               | 3,768.83        | 1,759.61         | 1,587.67           | 171.94            | 10.234 |                                                                                      |         |                            |  |
| 12,800.00                  | 8,835.00       | 12,813.89      | 8,840.00       | 87.90           | 87.84  | -89.79            | 2,798.06               | 3,868.83        | 1,759.61         | 1,583.87           | 175.74            | 10.013 |                                                                                      |         |                            |  |
| 12,900.00                  | 8,835.00       | 12,913.89      | 8,840.00       | 89.81           | 89.74  | -89.79            | 2,798.65               | 3,968.82        | 1,759.61         | 1,580.06           | 179.55            | 9.800  |                                                                                      |         |                            |  |
| 13,000.00                  | 8,835.00       | 13,013.89      | 8,840.00       | 91.72           | 91.65  | -89.79            | 2,799.24               | 4,068.82        | 1,759.61         | 1,576.24           | 183.37            | 9.596  |                                                                                      |         |                            |  |
| 13,100.00                  | 8,835.00       | 13,113.89      | 8,840.00       | 93.64           | 93.56  | -89.79            | 2,799.84               | 4,168.82        | 1,759.60         | 1,572.40           | 187.20            | 9.399  |                                                                                      |         |                            |  |
| 13,200.00                  | 8,835.00       | 13,213.89      | 8,840.00       | 95.56           | 95.48  | -89.79            | 2,800.43               | 4,268.82        | 1,759.60         | 1,568.56           | 191.05            | 9.210  |                                                                                      |         |                            |  |
| 13,300.00                  | 8,835.00       | 13,313.89      | 8,840.00       | 97.49           | 97.41  | -89.79            | 2,801.02               | 4,368.82        | 1,759.60         | 1,564.70           | 194.90            | 9.028  |                                                                                      |         |                            |  |
| 13,400.00                  | 8,835.00       | 13,413.89      | 8,840.00       | 99.42           | 99.33  | -89.79            | 2,801.62               | 4,468.81        | 1,759.60         | 1,560.83           | 198.76            | 8.853  |                                                                                      |         |                            |  |
| 13,500.00                  | 8,835.00       | 13,513.89      | 8,840.00       | 101.36          | 101.27 | -89.79            | 2,802.21               | 4,568.81        | 1,759.59         | 1,556.96           | 202.63            | 8.684  |                                                                                      |         |                            |  |
| 13,600.00                  | 8,835.00       | 13,613.89      | 8,840.00       | 103.30          | 103.21 | -89.79            | 2,802.80               | 4,668.81        | 1,759.59         | 1,553.08           | 206.51            | 8.520  |                                                                                      |         |                            |  |
| 13,700.00                  | 8,835.00       | 13,713.89      | 8,840.00       | 105.25          | 105.15 | -89.79            | 2,803.40               | 4,768.81        | 1,759.59         | 1,549.19           | 210.40            | 8.363  |                                                                                      |         |                            |  |
| 13,800.00                  | 8,835.00       | 13,813.89      | 8,840.00       | 107.20          | 107.10 | -89.79            | 2,803.99               | 4,868.81        | 1,759.59         | 1,545.29           | 214.30            | 8.211  |                                                                                      |         |                            |  |
| 13,900.00                  | 8,835.00       | 13,913.89      | 8,840.00       | 109.15          | 109.05 | -89.79            | 2,804.58               | 4,968.81        | 1,759.58         | 1,541.38           | 218.20            | 8.064  |                                                                                      |         |                            |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 331H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|-----------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1                                                                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                                                                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                                                                                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 14,000.00                                                                                                 | 8,835.00            | 14,013.89           | 8,840.00            | 111.10          | 111.00      | -89.79                | 2,805.18                          | 5,068.80   | 1,759.58             | 1,537.47              | 222.11                  | 7.922             |                    |         |
| 14,100.00                                                                                                 | 8,835.00            | 14,113.89           | 8,840.00            | 113.06          | 112.96      | -89.79                | 2,805.77                          | 5,168.80   | 1,759.58             | 1,533.55              | 226.03                  | 7.785             |                    |         |
| 14,200.00                                                                                                 | 8,835.00            | 14,213.89           | 8,840.00            | 115.03          | 114.92      | -89.79                | 2,806.36                          | 5,268.80   | 1,759.58             | 1,529.62              | 229.95                  | 7.652             |                    |         |
| 14,300.00                                                                                                 | 8,835.00            | 14,313.89           | 8,840.00            | 116.99          | 116.88      | -89.79                | 2,806.96                          | 5,368.80   | 1,759.57             | 1,525.69              | 233.88                  | 7.523             |                    |         |
| 14,400.00                                                                                                 | 8,835.00            | 14,413.89           | 8,840.00            | 118.96          | 118.85      | -89.79                | 2,807.55                          | 5,468.80   | 1,759.57             | 1,521.76              | 237.81                  | 7.399             |                    |         |
| 14,500.00                                                                                                 | 8,835.00            | 14,513.89           | 8,840.00            | 120.93          | 120.81      | -89.79                | 2,808.14                          | 5,568.80   | 1,759.57             | 1,517.82              | 241.75                  | 7.278             |                    |         |
| 14,600.00                                                                                                 | 8,835.00            | 14,613.89           | 8,840.00            | 122.90          | 122.79      | -89.79                | 2,808.74                          | 5,668.79   | 1,759.57             | 1,513.87              | 245.70                  | 7.162             |                    |         |
| 14,700.00                                                                                                 | 8,835.00            | 14,713.89           | 8,840.00            | 124.88          | 124.76      | -89.79                | 2,809.33                          | 5,768.79   | 1,759.56             | 1,509.92              | 249.65                  | 7.048             |                    |         |
| 14,800.00                                                                                                 | 8,835.00            | 14,813.89           | 8,840.00            | 126.86          | 126.73      | -89.79                | 2,809.93                          | 5,868.79   | 1,759.56             | 1,505.96              | 253.60                  | 6.938             |                    |         |
| 14,900.00                                                                                                 | 8,835.00            | 14,913.89           | 8,840.00            | 128.84          | 128.71      | -89.79                | 2,810.52                          | 5,968.79   | 1,759.56             | 1,502.00              | 257.56                  | 6.832             |                    |         |
| 15,000.00                                                                                                 | 8,835.00            | 15,013.89           | 8,840.00            | 130.82          | 130.69      | -89.79                | 2,811.11                          | 6,068.79   | 1,759.56             | 1,498.04              | 261.52                  | 6.728             |                    |         |
| 15,100.00                                                                                                 | 8,835.00            | 15,113.89           | 8,840.00            | 132.80          | 132.67      | -89.79                | 2,811.71                          | 6,168.78   | 1,759.55             | 1,494.07              | 265.49                  | 6.628             |                    |         |
| 15,200.00                                                                                                 | 8,835.00            | 15,213.89           | 8,840.00            | 134.79          | 134.66      | -89.79                | 2,812.30                          | 6,268.78   | 1,759.55             | 1,490.09              | 269.46                  | 6.530             |                    |         |
| 15,300.00                                                                                                 | 8,835.00            | 15,313.89           | 8,840.00            | 136.78          | 136.64      | -89.79                | 2,812.89                          | 6,368.78   | 1,759.55             | 1,486.12              | 273.43                  | 6.435             |                    |         |
| 15,400.00                                                                                                 | 8,835.00            | 15,413.89           | 8,840.00            | 138.76          | 138.63      | -89.79                | 2,813.49                          | 6,468.78   | 1,759.55             | 1,482.14              | 277.41                  | 6.343             |                    |         |
| 15,500.00                                                                                                 | 8,835.00            | 15,513.89           | 8,840.00            | 140.76          | 140.62      | -89.79                | 2,814.08                          | 6,568.78   | 1,759.54             | 1,478.16              | 281.39                  | 6.253             |                    |         |
| 15,600.00                                                                                                 | 8,835.00            | 15,613.89           | 8,840.00            | 142.75          | 142.61      | -89.79                | 2,814.67                          | 6,668.78   | 1,759.54             | 1,474.17              | 285.37                  | 6.166             |                    |         |
| 15,700.00                                                                                                 | 8,835.00            | 15,713.89           | 8,840.00            | 144.74          | 144.60      | -89.79                | 2,815.27                          | 6,768.77   | 1,759.54             | 1,470.18              | 289.36                  | 6.081             |                    |         |
| 15,800.00                                                                                                 | 8,835.00            | 15,813.89           | 8,840.00            | 146.74          | 146.60      | -89.79                | 2,815.86                          | 6,868.77   | 1,759.54             | 1,466.19              | 293.35                  | 5.998             |                    |         |
| 15,900.00                                                                                                 | 8,835.00            | 15,913.89           | 8,840.00            | 148.73          | 148.59      | -89.79                | 2,816.45                          | 6,968.77   | 1,759.53             | 1,462.20              | 297.34                  | 5.918             |                    |         |
| 16,000.00                                                                                                 | 8,835.00            | 16,013.89           | 8,840.00            | 150.73          | 150.59      | -89.79                | 2,817.05                          | 7,068.77   | 1,759.53             | 1,458.20              | 301.33                  | 5.839             |                    |         |
| 16,100.00                                                                                                 | 8,835.00            | 16,113.89           | 8,840.00            | 152.73          | 152.59      | -89.79                | 2,817.64                          | 7,168.77   | 1,759.53             | 1,454.20              | 305.33                  | 5.763             |                    |         |
| 16,200.00                                                                                                 | 8,835.00            | 16,213.89           | 8,840.00            | 154.73          | 154.59      | -89.79                | 2,818.23                          | 7,268.77   | 1,759.53             | 1,450.20              | 309.33                  | 5.688             |                    |         |
| 16,300.00                                                                                                 | 8,835.00            | 16,313.89           | 8,840.00            | 156.73          | 156.59      | -89.79                | 2,818.83                          | 7,368.76   | 1,759.52             | 1,446.19              | 313.33                  | 5.615             |                    |         |
| 16,400.00                                                                                                 | 8,835.00            | 16,413.89           | 8,840.00            | 158.74          | 158.59      | -89.79                | 2,819.42                          | 7,468.76   | 1,759.52             | 1,442.18              | 317.34                  | 5.545             |                    |         |
| 16,500.00                                                                                                 | 8,835.00            | 16,513.89           | 8,840.00            | 160.74          | 160.59      | -89.79                | 2,820.01                          | 7,568.76   | 1,759.52             | 1,438.17              | 321.35                  | 5.475             |                    |         |
| 16,600.00                                                                                                 | 8,835.00            | 16,613.89           | 8,840.00            | 162.74          | 162.60      | -89.79                | 2,820.61                          | 7,668.76   | 1,759.52             | 1,434.16              | 325.35                  | 5.408             |                    |         |
| 16,700.00                                                                                                 | 8,835.00            | 16,713.89           | 8,840.00            | 164.75          | 164.60      | -89.79                | 2,821.20                          | 7,768.76   | 1,759.51             | 1,430.15              | 329.37                  | 5.342             |                    |         |
| 16,800.00                                                                                                 | 8,835.00            | 16,813.89           | 8,840.00            | 166.76          | 166.61      | -89.79                | 2,821.79                          | 7,868.75   | 1,759.51             | 1,426.13              | 333.38                  | 5.278             |                    |         |
| 16,900.00                                                                                                 | 8,835.00            | 16,913.89           | 8,840.00            | 168.77          | 168.61      | -89.79                | 2,822.39                          | 7,968.75   | 1,759.51             | 1,422.12              | 337.39                  | 5.215             |                    |         |
| 17,000.00                                                                                                 | 8,835.00            | 17,013.89           | 8,840.00            | 170.77          | 170.62      | -89.79                | 2,822.98                          | 8,068.75   | 1,759.51             | 1,418.10              | 341.41                  | 5.154             |                    |         |
| 17,100.00                                                                                                 | 8,835.00            | 17,113.89           | 8,840.00            | 172.78          | 172.63      | -89.79                | 2,823.57                          | 8,168.75   | 1,759.50             | 1,414.08              | 345.43                  | 5.094             |                    |         |
| 17,200.00                                                                                                 | 8,835.00            | 17,213.89           | 8,840.00            | 174.79          | 174.64      | -89.79                | 2,824.17                          | 8,268.75   | 1,759.50             | 1,410.05              | 349.45                  | 5.035             |                    |         |
| 17,300.00                                                                                                 | 8,835.00            | 17,313.89           | 8,840.00            | 176.81          | 176.65      | -89.79                | 2,824.76                          | 8,368.75   | 1,759.50             | 1,406.03              | 353.47                  | 4.978 Alert       |                    |         |
| 17,400.00                                                                                                 | 8,835.00            | 17,413.89           | 8,840.00            | 178.82          | 178.66      | -89.79                | 2,825.35                          | 8,468.74   | 1,759.50             | 1,402.00              | 357.49                  | 4.922 Alert       |                    |         |
| 17,500.00                                                                                                 | 8,835.00            | 17,513.89           | 8,840.00            | 180.83          | 180.67      | -89.79                | 2,825.95                          | 8,568.74   | 1,759.49             | 1,397.97              | 361.52                  | 4.867 Alert       |                    |         |
| 17,600.00                                                                                                 | 8,835.00            | 17,613.89           | 8,840.00            | 182.84          | 182.69      | -89.79                | 2,826.54                          | 8,668.74   | 1,759.49             | 1,393.95              | 365.55                  | 4.813 Alert       |                    |         |
| 17,700.00                                                                                                 | 8,835.00            | 17,713.89           | 8,840.00            | 184.86          | 184.70      | -89.79                | 2,827.13                          | 8,768.74   | 1,759.49             | 1,389.91              | 369.57                  | 4.761 Alert       |                    |         |
| 17,800.00                                                                                                 | 8,835.00            | 17,813.89           | 8,840.00            | 186.87          | 186.71      | -89.79                | 2,827.73                          | 8,868.74   | 1,759.49             | 1,385.88              | 373.60                  | 4.710 Alert       |                    |         |
| 17,900.00                                                                                                 | 8,835.00            | 17,913.89           | 8,840.00            | 188.89          | 188.73      | -89.79                | 2,828.32                          | 8,968.74   | 1,759.48             | 1,381.85              | 377.63                  | 4.659 Alert       |                    |         |
| 18,000.00                                                                                                 | 8,835.00            | 18,013.89           | 8,840.00            | 190.91          | 190.75      | -89.79                | 2,828.91                          | 9,068.73   | 1,759.48             | 1,377.81              | 381.67                  | 4.610 Alert       |                    |         |
| 18,100.00                                                                                                 | 8,835.00            | 18,113.89           | 8,840.00            | 192.92          | 192.76      | -89.79                | 2,829.51                          | 9,168.73   | 1,759.48             | 1,373.78              | 385.70                  | 4.562 Alert       |                    |         |
| 18,200.00                                                                                                 | 8,835.00            | 18,213.89           | 8,840.00            | 194.94          | 194.78      | -89.79                | 2,830.10                          | 9,268.73   | 1,759.48             | 1,369.74              | 389.73                  | 4.515 Alert       |                    |         |
| 18,300.00                                                                                                 | 8,835.00            | 18,313.89           | 8,840.00            | 196.96          | 196.80      | -89.79                | 2,830.69                          | 9,368.73   | 1,759.47             | 1,365.70              | 393.77                  | 4.468 Alert       |                    |         |
| 18,400.00                                                                                                 | 8,835.00            | 18,413.89           | 8,840.00            | 198.98          | 198.81      | -89.79                | 2,831.29                          | 9,468.73   | 1,759.47             | 1,361.66              | 397.81                  | 4.423 Alert       |                    |         |
| 18,500.00                                                                                                 | 8,835.00            | 18,513.89           | 8,840.00            | 201.00          | 200.83      | -89.79                | 2,831.88                          | 9,568.72   | 1,759.47             | 1,357.62              | 401.85                  | 4.378 Alert       |                    |         |
| 18,600.00                                                                                                 | 8,835.00            | 18,613.89           | 8,840.00            | 203.02          | 202.85      | -89.79                | 2,832.47                          | 9,668.72   | 1,759.47             | 1,353.58              | 405.88                  | 4.335 Alert       |                    |         |
| 18,700.00                                                                                                 | 8,835.00            | 18,713.89           | 8,840.00            | 205.04          | 204.87      | -89.79                | 2,833.07                          | 9,768.72   | 1,759.46             | 1,349.54              | 409.92                  | 4.292 Alert       |                    |         |
| 18,800.00                                                                                                 | 8,835.00            | 18,813.89           | 8,840.00            | 207.06          | 206.89      | -89.79                | 2,833.66                          | 9,868.72   | 1,759.46             | 1,345.50              | 413.97                  | 4.250 Alert       |                    |         |
| 18,900.00                                                                                                 | 8,835.00            | 18,913.89           | 8,840.00            | 209.08          | 208.91      | -89.79                | 2,834.25                          | 9,968.72   | 1,759.46             | 1,341.45              | 418.01                  | 4.209 Alert       |                    |         |
| 19,000.00                                                                                                 | 8,835.00            | 19,013.89           | 8,840.00            | 211.10          | 210.93      | -89.79                | 2,834.85                          | 10,068.72  | 1,759.46             | 1,337.40              | 422.05                  | 4.169 Alert       |                    |         |
| 19,100.00                                                                                                 | 8,835.00            | 19,113.89           | 8,840.00            | 213.12          | 212.96      | -89.79                | 2,835.44                          | 10,168.71  | 1,759.45             | 1,333.36              | 426.10                  | 4.129 Alert       |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 331H - Wellbore #1 - Permit Plan 1 |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Site Error:</b> | 0.00 ft |
|-----------------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|-----------------------------------------|---------------|-------------------------|--------------------------|----------------------------|---------------------------|---------|
| Survey Program: 0-MWD+IFR1                                                                                |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                                 |                        | Offset                 |                        | Semi Major Axis   |                |                          | Distance                                |               |                         |                          |                            |                           | Warning |
| Measured Depth<br>(ft)                                                                                    | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between Centres<br>(ft) | Between Ellipses<br>(ft) | Minimum Separation<br>(ft) | Separation Factor         |         |
| 19,200.00                                                                                                 | 8,835.00               | 19,213.89              | 8,840.00               | 215.15            | 214.98         | -89.79                   | 2,836.04                                | 10,268.71     | 1,759.45                | 1,329.31                 | 430.14                     | 4.090 Alert               |         |
| 19,308.27                                                                                                 | 8,835.00               | 19,322.16              | 8,840.00               | 217.34            | 217.17         | -89.79                   | 2,836.68                                | 10,376.98     | 1,759.45                | 1,324.93                 | 434.52                     | 4.049 Alert, ES, SF       |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                       | 0.00                | 10.20               | 10.20               | 0.50            | 0.50        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             |                       |                         |                   |                    |         |
| 100.00                     | 100.00              | 110.20              | 110.20              | 0.52            | 0.53        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,497.65              | 1.05                    | 1,432.535         |                    |         |
| 200.00                     | 200.00              | 210.20              | 210.20              | 0.70            | 0.73        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,497.27              | 1.43                    | 1,047.790         |                    |         |
| 300.00                     | 300.00              | 310.20              | 310.20              | 0.99            | 1.02        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,496.69              | 2.01                    | 746.970           |                    |         |
| 400.00                     | 400.00              | 410.20              | 410.20              | 1.31            | 1.34        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,496.04              | 2.65                    | 565.110           |                    |         |
| 500.00                     | 500.00              | 510.20              | 510.20              | 1.65            | 1.68        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,495.37              | 3.33                    | 450.458           |                    |         |
| 600.00                     | 600.00              | 610.20              | 610.20              | 1.99            | 2.03        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,494.68              | 4.02                    | 373.124           |                    |         |
| 700.00                     | 700.00              | 710.20              | 710.20              | 2.34            | 2.38        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,493.98              | 4.71                    | 317.900           |                    |         |
| 800.00                     | 800.00              | 810.20              | 810.20              | 2.69            | 2.73        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,493.28              | 5.42                    | 276.659           |                    |         |
| 900.00                     | 900.00              | 910.20              | 910.20              | 3.04            | 3.08        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,492.57              | 6.12                    | 244.758           |                    |         |
| 1,000.00                   | 1,000.00            | 1,010.20            | 1,010.20            | 3.40            | 3.43        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,491.87              | 6.83                    | 219.380           |                    |         |
| 1,100.00                   | 1,100.00            | 1,110.20            | 1,110.20            | 3.75            | 3.79        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,491.16              | 7.54                    | 198.728           |                    |         |
| 1,200.00                   | 1,200.00            | 1,210.20            | 1,210.20            | 4.11            | 4.14        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,490.44              | 8.25                    | 181.603           |                    |         |
| 1,300.00                   | 1,300.00            | 1,310.20            | 1,310.20            | 4.46            | 4.50        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,489.73              | 8.96                    | 167.178           |                    |         |
| 1,400.00                   | 1,400.00            | 1,410.20            | 1,410.20            | 4.82            | 4.86        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,489.02              | 9.68                    | 154.864           |                    |         |
| 1,500.00                   | 1,500.00            | 1,510.20            | 1,510.20            | 5.18            | 5.21        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,488.31              | 10.39                   | 144.232           |                    |         |
| 1,600.00                   | 1,600.00            | 1,610.20            | 1,610.20            | 5.53            | 5.57        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,487.59              | 11.10                   | 134.961           |                    |         |
| 1,700.00                   | 1,700.00            | 1,710.20            | 1,710.20            | 5.89            | 5.93        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,486.88              | 11.82                   | 126.805           |                    |         |
| 1,800.00                   | 1,800.00            | 1,810.20            | 1,810.20            | 6.25            | 6.28        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,486.16              | 12.53                   | 119.576           |                    |         |
| 1,900.00                   | 1,900.00            | 1,910.20            | 1,910.20            | 6.61            | 6.64        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,485.45              | 13.25                   | 113.125           |                    |         |
| 2,000.00                   | 2,000.00            | 2,010.20            | 2,010.20            | 6.96            | 7.00        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,484.73              | 13.96                   | 107.332           |                    |         |
| 2,100.00                   | 2,099.99            | 2,110.19            | 2,110.19            | 7.32            | 7.36        | 12.66                 | 1,498.69                          | -3.30      | 1,497.85             | 1,483.17              | 14.68                   | 102.046           |                    |         |
| 2,200.00                   | 2,199.96            | 2,210.16            | 2,210.16            | 7.68            | 7.71        | 12.69                 | 1,498.69                          | -3.30      | 1,495.29             | 1,479.90              | 15.39                   | 97.140            |                    |         |
| 2,300.00                   | 2,299.86            | 2,310.06            | 2,310.06            | 8.04            | 8.07        | 12.74                 | 1,498.69                          | -3.30      | 1,491.04             | 1,474.93              | 16.11                   | 92.565            |                    |         |
| 2,400.00                   | 2,399.68            | 2,409.88            | 2,409.88            | 8.39            | 8.43        | 12.80                 | 1,498.69                          | -3.30      | 1,485.08             | 1,468.26              | 16.82                   | 88.280            |                    |         |
| 2,500.00                   | 2,499.37            | 2,509.57            | 2,509.57            | 8.75            | 8.79        | 12.89                 | 1,498.69                          | -3.30      | 1,477.43             | 1,459.89              | 17.54                   | 84.249            |                    |         |
| 2,600.00                   | 2,598.90            | 2,609.10            | 2,609.10            | 9.11            | 9.14        | 12.99                 | 1,498.69                          | -3.30      | 1,468.09             | 1,449.84              | 18.25                   | 80.443            |                    |         |
| 2,700.00                   | 2,698.26            | 2,708.46            | 2,708.46            | 9.46            | 9.50        | 13.12                 | 1,498.69                          | -3.30      | 1,457.06             | 1,438.09              | 18.96                   | 76.838            |                    |         |
| 2,800.00                   | 2,797.40            | 2,788.31            | 2,788.30            | 9.82            | 9.78        | 13.22                 | 1,499.28                          | -3.64      | 1,445.06             | 1,425.46              | 19.60                   | 73.710            |                    |         |
| 2,900.00                   | 2,896.30            | 2,869.78            | 2,869.75            | 10.18           | 10.07       | 13.33                 | 1,500.88                          | -4.54      | 1,432.60             | 1,412.35              | 20.25                   | 70.746            |                    |         |
| 3,000.00                   | 2,994.93            | 2,951.35            | 2,951.27            | 10.54           | 10.36       | 13.42                 | 1,503.49                          | -6.02      | 1,419.68             | 1,398.79              | 20.89                   | 67.946            |                    |         |
| 3,100.00                   | 3,093.26            | 3,033.02            | 3,032.83            | 10.90           | 10.65       | 13.51                 | 1,507.11                          | -8.08      | 1,406.30             | 1,384.76              | 21.54                   | 65.295            |                    |         |
| 3,195.07                   | 3,186.42            | 3,110.75            | 3,110.40            | 11.24           | 10.93       | 13.59                 | 1,511.49                          | -10.57     | 1,393.16             | 1,371.01              | 22.15                   | 62.901            |                    |         |
| 3,200.00                   | 3,191.25            | 3,114.79            | 3,114.42            | 11.26           | 10.95       | 13.59                 | 1,511.74                          | -10.71     | 1,392.47             | 1,370.29              | 22.18                   | 62.778            |                    |         |
| 3,300.00                   | 3,289.08            | 3,196.76            | 3,196.14            | 11.62           | 11.24       | 13.62                 | 1,517.41                          | -13.93     | 1,379.10             | 1,356.27              | 22.82                   | 60.427            |                    |         |
| 3,400.00                   | 3,386.91            | 3,284.23            | 3,283.22            | 11.98           | 11.55       | 13.63                 | 1,524.50                          | -17.96     | 1,366.90             | 1,343.41              | 23.49                   | 58.195            |                    |         |
| 3,500.00                   | 3,484.74            | 3,383.52            | 3,382.05            | 12.35           | 11.90       | 13.63                 | 1,532.83                          | -22.69     | 1,354.99             | 1,330.78              | 24.21                   | 55.973            |                    |         |
| 3,600.00                   | 3,582.58            | 3,482.80            | 3,480.87            | 12.72           | 12.26       | 13.63                 | 1,541.16                          | -27.42     | 1,343.08             | 1,318.15              | 24.93                   | 53.876            |                    |         |
| 3,700.00                   | 3,680.41            | 3,582.09            | 3,579.70            | 13.09           | 12.61       | 13.63                 | 1,549.49                          | -32.15     | 1,331.17             | 1,305.52              | 25.65                   | 51.894            |                    |         |
| 3,800.00                   | 3,778.24            | 3,681.38            | 3,678.53            | 13.46           | 12.97       | 13.63                 | 1,557.82                          | -36.88     | 1,319.27             | 1,292.89              | 26.38                   | 50.018            |                    |         |
| 3,900.00                   | 3,876.08            | 3,780.67            | 3,777.35            | 13.83           | 13.32       | 13.63                 | 1,566.15                          | -41.61     | 1,307.36             | 1,280.26              | 27.10                   | 48.239            |                    |         |
| 4,000.00                   | 3,973.91            | 3,879.96            | 3,876.18            | 14.21           | 13.68       | 13.63                 | 1,574.48                          | -46.34     | 1,295.45             | 1,267.62              | 27.83                   | 46.551            |                    |         |
| 4,100.00                   | 4,071.74            | 3,979.25            | 3,975.00            | 14.58           | 14.04       | 13.63                 | 1,582.80                          | -51.07     | 1,283.55             | 1,254.99              | 28.56                   | 44.947            |                    |         |
| 4,200.00                   | 4,169.57            | 4,078.54            | 4,073.83            | 14.96           | 14.39       | 13.63                 | 1,591.13                          | -55.80     | 1,271.64             | 1,242.35              | 29.29                   | 43.421            |                    |         |
| 4,300.00                   | 4,267.41            | 4,177.82            | 4,172.65            | 15.33           | 14.75       | 13.63                 | 1,599.46                          | -60.53     | 1,259.73             | 1,229.72              | 30.02                   | 41.968            |                    |         |
| 4,400.00                   | 4,365.24            | 4,277.11            | 4,271.48            | 15.71           | 15.11       | 13.63                 | 1,607.79                          | -65.26     | 1,247.82             | 1,217.08              | 30.75                   | 40.583            |                    |         |
| 4,500.00                   | 4,463.07            | 4,376.40            | 4,370.30            | 16.09           | 15.47       | 13.63                 | 1,616.12                          | -69.99     | 1,235.92             | 1,204.44              | 31.48                   | 39.261            |                    |         |
| 4,600.00                   | 4,560.90            | 4,475.69            | 4,469.13            | 16.47           | 15.82       | 13.63                 | 1,624.45                          | -74.72     | 1,224.01             | 1,191.80              | 32.21                   | 37.999            |                    |         |
| 4,700.00                   | 4,658.74            | 4,574.98            | 4,567.95            | 16.85           | 16.18       | 13.63                 | 1,632.78                          | -79.45     | 1,212.10             | 1,179.16              | 32.95                   | 36.791            |                    |         |
| 4,800.00                   | 4,756.57            | 4,674.27            | 4,666.78            | 17.23           | 16.54       | 13.64                 | 1,641.11                          | -84.18     | 1,200.20             | 1,166.52              | 33.68                   | 35.636            |                    |         |
| 4,900.00                   | 4,854.40            | 4,773.56            | 4,765.61            | 17.61           | 16.90       | 13.64                 | 1,649.44                          | -88.91     | 1,188.29             | 1,153.87              | 34.41                   | 34.529            |                    |         |
| 5,000.00                   | 4,952.23            | 4,872.84            | 4,864.43            | 17.99           | 17.26       | 13.64                 | 1,657.77                          | -93.64     | 1,176.38             | 1,141.23              | 35.15                   | 33.467            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 332H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|-----------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1                                                                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                                                                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                                                                                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                                                                                                  | 5,050.07            | 4,972.13            | 4,963.26            | 18.37           | 17.62       | 13.64                 | 1,666.10                          | -98.37     | 1,164.47             | 1,128.59              | 35.89                   | 32.449            |                    |         |
| 5,200.00                                                                                                  | 5,147.90            | 5,071.42            | 5,062.08            | 18.75           | 17.98       | 13.64                 | 1,674.43                          | -103.10    | 1,152.57             | 1,115.94              | 36.62                   | 31.471            |                    |         |
| 5,300.00                                                                                                  | 5,245.73            | 5,170.71            | 5,160.91            | 19.14           | 18.34       | 13.64                 | 1,682.76                          | -107.83    | 1,140.66             | 1,103.30              | 37.36                   | 30.532            |                    |         |
| 5,400.00                                                                                                  | 5,343.56            | 5,270.00            | 5,259.73            | 19.52           | 18.69       | 13.64                 | 1,691.08                          | -112.56    | 1,128.75             | 1,090.66              | 38.10                   | 29.628            |                    |         |
| 5,500.00                                                                                                  | 5,441.40            | 5,369.29            | 5,358.56            | 19.90           | 19.05       | 13.64                 | 1,699.41                          | -117.29    | 1,116.85             | 1,078.01              | 38.84                   | 28.758            |                    |         |
| 5,600.00                                                                                                  | 5,539.23            | 5,468.58            | 5,457.38            | 20.29           | 19.41       | 13.64                 | 1,707.74                          | -122.02    | 1,104.94             | 1,065.36              | 39.57                   | 27.921            |                    |         |
| 5,700.00                                                                                                  | 5,637.06            | 5,567.86            | 5,556.21            | 20.67           | 19.77       | 13.64                 | 1,716.07                          | -126.75    | 1,093.03             | 1,052.72              | 40.31                   | 27.114            |                    |         |
| 5,800.00                                                                                                  | 5,734.90            | 5,667.15            | 5,655.03            | 21.05           | 20.13       | 13.64                 | 1,724.40                          | -131.48    | 1,081.13             | 1,040.07              | 41.05                   | 26.335            |                    |         |
| 5,900.00                                                                                                  | 5,832.73            | 5,766.44            | 5,753.86            | 21.44           | 20.49       | 13.65                 | 1,732.73                          | -136.21    | 1,069.22             | 1,027.43              | 41.79                   | 25.584            |                    |         |
| 6,000.00                                                                                                  | 5,930.56            | 5,865.73            | 5,852.69            | 21.83           | 20.85       | 13.65                 | 1,741.06                          | -140.94    | 1,057.31             | 1,014.78              | 42.53                   | 24.859            |                    |         |
| 6,100.00                                                                                                  | 6,028.39            | 5,965.02            | 5,951.51            | 22.21           | 21.21       | 13.65                 | 1,749.39                          | -145.67    | 1,045.40             | 1,002.13              | 43.27                   | 24.158            |                    |         |
| 6,200.00                                                                                                  | 6,126.23            | 6,064.31            | 6,050.34            | 22.60           | 21.57       | 13.65                 | 1,757.72                          | -150.40    | 1,033.50             | 989.48                | 44.01                   | 23.481            |                    |         |
| 6,300.00                                                                                                  | 6,224.06            | 6,163.60            | 6,149.16            | 22.98           | 21.94       | 13.65                 | 1,766.05                          | -155.13    | 1,021.59             | 976.84                | 44.75                   | 22.827            |                    |         |
| 6,400.00                                                                                                  | 6,321.89            | 6,262.88            | 6,247.99            | 23.37           | 22.30       | 13.65                 | 1,774.38                          | -159.86    | 1,009.68             | 964.19                | 45.50                   | 22.193            |                    |         |
| 6,500.00                                                                                                  | 6,419.72            | 6,362.17            | 6,346.81            | 23.76           | 22.66       | 13.65                 | 1,782.71                          | -164.59    | 997.78               | 951.54                | 46.24                   | 21.579            |                    |         |
| 6,600.00                                                                                                  | 6,517.56            | 6,461.46            | 6,445.64            | 24.14           | 23.02       | 13.65                 | 1,791.03                          | -169.32    | 985.87               | 938.89                | 46.98                   | 20.985            |                    |         |
| 6,700.00                                                                                                  | 6,615.39            | 6,560.75            | 6,544.46            | 24.53           | 23.38       | 13.65                 | 1,799.36                          | -174.05    | 973.96               | 926.24                | 47.72                   | 20.409            |                    |         |
| 6,800.00                                                                                                  | 6,713.22            | 6,660.04            | 6,643.29            | 24.92           | 23.74       | 13.66                 | 1,807.69                          | -178.78    | 962.05               | 913.59                | 48.46                   | 19.851            |                    |         |
| 6,900.00                                                                                                  | 6,811.05            | 6,759.33            | 6,742.11            | 25.30           | 24.10       | 13.66                 | 1,816.02                          | -183.51    | 950.15               | 900.94                | 49.21                   | 19.309            |                    |         |
| 7,000.00                                                                                                  | 6,908.89            | 6,858.62            | 6,840.94            | 25.69           | 24.46       | 13.66                 | 1,824.35                          | -188.24    | 938.24               | 888.29                | 49.95                   | 18.784            |                    |         |
| 7,100.00                                                                                                  | 7,006.72            | 6,957.90            | 6,939.77            | 26.08           | 24.82       | 13.66                 | 1,832.68                          | -192.97    | 926.33               | 875.64                | 50.69                   | 18.274            |                    |         |
| 7,200.00                                                                                                  | 7,104.55            | 7,057.19            | 7,038.59            | 26.47           | 25.18       | 13.66                 | 1,841.01                          | -197.70    | 914.43               | 862.99                | 51.44                   | 17.778            |                    |         |
| 7,216.87                                                                                                  | 7,121.05            | 7,073.94            | 7,055.26            | 26.53           | 25.24       | 13.66                 | 1,842.42                          | -198.50    | 912.42               | 860.86                | 51.56                   | 17.696            |                    |         |
| 7,300.00                                                                                                  | 7,202.57            | 7,156.58            | 7,137.51            | 26.85           | 25.54       | 13.62                 | 1,849.35                          | -202.44    | 903.39               | 851.21                | 52.18                   | 17.314            |                    |         |
| 7,400.00                                                                                                  | 7,301.06            | 7,256.21            | 7,236.68            | 27.23           | 25.91       | 13.54                 | 1,857.71                          | -207.18    | 894.86               | 841.94                | 52.92                   | 16.910            |                    |         |
| 7,500.00                                                                                                  | 7,399.97            | 7,356.02            | 7,336.02            | 27.61           | 26.27       | 13.42                 | 1,866.08                          | -211.94    | 888.86               | 835.20                | 53.65                   | 16.567            |                    |         |
| 7,600.00                                                                                                  | 7,499.23            | 7,455.93            | 7,435.47            | 27.98           | 26.63       | 13.28                 | 1,874.46                          | -216.70    | 885.41               | 831.02                | 54.38                   | 16.280            |                    |         |
| 7,685.06                                                                                                  | 7,583.89            | 7,540.96            | 7,520.10            | 28.29           | 26.94       | 13.13                 | 1,881.59                          | -220.75    | 884.48               | 829.48                | 55.00                   | 16.081 CC         |                    |         |
| 7,700.00                                                                                                  | 7,598.77            | 7,555.89            | 7,534.96            | 28.34           | 27.00       | 13.10                 | 1,882.85                          | -221.46    | 884.51               | 829.40                | 55.11                   | 16.050            |                    |         |
| 7,800.00                                                                                                  | 7,698.53            | 7,664.94            | 7,643.52            | 28.70           | 27.39       | 12.89                 | 1,891.76                          | -226.52    | 885.99               | 830.13                | 55.86                   | 15.861            |                    |         |
| 7,900.00                                                                                                  | 7,798.44            | 7,790.19            | 7,768.48            | 29.05           | 27.85       | 12.70                 | 1,899.20                          | -230.75    | 887.76               | 831.14                | 56.62                   | 15.679            |                    |         |
| 8,000.00                                                                                                  | 7,898.42            | 7,915.57            | 7,893.77            | 29.39           | 28.30       | 12.59                 | 1,903.08                          | -232.95    | 889.24               | 831.89                | 57.34                   | 15.508            |                    |         |
| 8,013.58                                                                                                  | 7,912.00            | 7,932.60            | 7,910.80            | 29.43           | 28.36       | -0.20                 | 1,903.33                          | -233.10    | 889.41               | 831.98                | 57.43                   | 15.486            |                    |         |
| 8,100.00                                                                                                  | 7,998.42            | 8,030.42            | 8,008.62            | 29.73           | 28.70       | -0.21                 | 1,903.69                          | -233.30    | 889.70               | 831.67                | 58.03                   | 15.332            |                    |         |
| 8,200.00                                                                                                  | 8,098.42            | 8,130.42            | 8,108.62            | 30.07           | 29.06       | -0.21                 | 1,903.69                          | -233.30    | 889.70               | 830.97                | 58.73                   | 15.150            |                    |         |
| 8,300.00                                                                                                  | 8,198.42            | 8,230.42            | 8,208.62            | 30.41           | 29.41       | -0.21                 | 1,903.69                          | -233.30    | 889.70               | 830.27                | 59.42                   | 14.972            |                    |         |
| 8,363.62                                                                                                  | 8,262.04            | 8,294.04            | 8,272.24            | 30.62           | 29.64       | -0.21                 | 1,903.69                          | -233.30    | 889.70               | 829.83                | 59.87                   | 14.861            |                    |         |
| 8,400.00                                                                                                  | 8,298.40            | 8,330.40            | 8,308.60            | 30.75           | 29.77       | -89.95                | 1,903.69                          | -233.30    | 889.70               | 829.58                | 60.12                   | 14.799            |                    |         |
| 8,411.53                                                                                                  | 8,309.89            | 8,341.89            | 8,320.09            | 30.78           | 29.81       | -90.00                | 1,903.69                          | -233.30    | 889.70               | 829.50                | 60.20                   | 14.780            |                    |         |
| 8,450.00                                                                                                  | 8,348.10            | 8,380.35            | 8,358.51            | 30.91           | 29.94       | -90.19                | 1,903.70                          | -231.80    | 889.70               | 829.25                | 60.45                   | 14.719            |                    |         |
| 8,500.00                                                                                                  | 8,397.14            | 8,430.63            | 8,408.44            | 31.07           | 30.10       | -90.44                | 1,903.74                          | -225.96    | 889.72               | 828.95                | 60.77                   | 14.641            |                    |         |
| 8,550.00                                                                                                  | 8,445.15            | 8,481.26            | 8,458.00            | 31.23           | 30.27       | -90.69                | 1,903.80                          | -215.69    | 889.76               | 828.68                | 61.09                   | 14.566            |                    |         |
| 8,600.00                                                                                                  | 8,491.77            | 8,532.25            | 8,506.79            | 31.38           | 30.44       | -90.93                | 1,903.89                          | -200.97    | 889.82               | 828.42                | 61.40                   | 14.493            |                    |         |
| 8,650.00                                                                                                  | 8,536.65            | 8,583.58            | 8,554.40            | 31.52           | 30.60       | -91.17                | 1,904.00                          | -181.82    | 889.88               | 828.18                | 61.70                   | 14.423            |                    |         |
| 8,700.00                                                                                                  | 8,579.43            | 8,635.26            | 8,600.41            | 31.66           | 30.77       | -91.40                | 1,904.14                          | -158.32    | 889.96               | 827.97                | 62.00                   | 14.355            |                    |         |
| 8,750.00                                                                                                  | 8,619.80            | 8,687.28            | 8,644.39            | 31.80           | 30.93       | -91.62                | 1,904.31                          | -130.58    | 890.05               | 827.76                | 62.29                   | 14.288            |                    |         |
| 8,800.00                                                                                                  | 8,657.44            | 8,739.63            | 8,685.93            | 31.93           | 31.09       | -91.83                | 1,904.50                          | -98.75     | 890.15               | 827.56                | 62.59                   | 14.222            |                    |         |
| 8,850.00                                                                                                  | 8,692.08            | 8,792.29            | 8,724.61            | 32.06           | 31.26       | -92.02                | 1,904.71                          | -63.04     | 890.25               | 827.36                | 62.89                   | 14.155            |                    |         |
| 8,900.00                                                                                                  | 8,723.44            | 8,845.24            | 8,760.04            | 32.19           | 31.43       | -92.20                | 1,904.94                          | -23.71     | 890.35               | 827.15                | 63.21                   | 14.086            |                    |         |
| 8,950.00                                                                                                  | 8,751.29            | 8,898.47            | 8,791.84            | 32.34           | 31.62       | -92.35                | 1,905.20                          | 18.95      | 890.45               | 826.91                | 63.54                   | 14.013            |                    |         |
| 9,000.00                                                                                                  | 8,775.42            | 8,951.95            | 8,819.66            | 32.50           | 31.81       | -92.50                | 1,905.47                          | 64.60      | 890.55               | 826.64                | 63.91                   | 13.935            |                    |         |
| 9,050.00                                                                                                  | 8,795.64            | 9,005.64            | 8,843.19            | 32.67           | 32.03       | -92.62                | 1,905.76                          | 112.83     | 890.63               | 826.32                | 64.31                   | 13.849            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,100.00                   | 8,811.80            | 9,059.51            | 8,862.16            | 32.87           | 32.27       | -92.72                | 1,906.06                          | 163.24     | 890.70               | 825.95                | 64.75                   | 13.756            |                    |         |
| 9,150.00                   | 8,823.77            | 9,113.54            | 8,876.35            | 33.10           | 32.53       | -92.79                | 1,906.37                          | 215.35     | 890.76               | 825.52                | 65.24                   | 13.654            |                    |         |
| 9,200.00                   | 8,831.47            | 9,167.68            | 8,885.59            | 33.34           | 32.80       | -92.85                | 1,906.69                          | 268.67     | 890.80               | 825.04                | 65.76                   | 13.546            |                    |         |
| 9,250.00                   | 8,834.84            | 9,221.89            | 8,889.75            | 33.60           | 33.10       | -92.88                | 1,907.01                          | 322.70     | 890.83               | 824.50                | 66.33                   | 13.431            |                    |         |
| 9,263.62                   | 8,835.00            | 9,236.66            | 8,889.99            | 33.67           | 33.18       | -92.88                | 1,907.10                          | 337.47     | 890.83               | 824.34                | 66.49                   | 13.399            |                    |         |
| 9,300.00                   | 8,835.00            | 9,273.21            | 8,890.00            | 33.88           | 33.40       | -92.88                | 1,907.32                          | 374.02     | 890.83               | 823.91                | 66.92                   | 13.312            |                    |         |
| 9,400.00                   | 8,835.00            | 9,373.21            | 8,890.00            | 34.53           | 34.08       | -92.88                | 1,907.91                          | 474.02     | 890.83               | 822.58                | 68.25                   | 13.052            |                    |         |
| 9,500.00                   | 8,835.00            | 9,473.21            | 8,890.00            | 35.30           | 34.85       | -92.88                | 1,908.51                          | 574.02     | 890.83               | 821.04                | 69.79                   | 12.764            |                    |         |
| 9,600.00                   | 8,835.00            | 9,573.21            | 8,890.00            | 36.17           | 35.73       | -92.88                | 1,909.11                          | 674.01     | 890.83               | 819.29                | 71.54                   | 12.453            |                    |         |
| 9,700.00                   | 8,835.00            | 9,673.21            | 8,890.00            | 37.13           | 36.70       | -92.88                | 1,909.71                          | 774.01     | 890.83               | 817.37                | 73.47                   | 12.125            |                    |         |
| 9,800.00                   | 8,835.00            | 9,773.21            | 8,890.00            | 38.18           | 37.76       | -92.88                | 1,910.30                          | 874.01     | 890.83               | 815.26                | 75.57                   | 11.788            |                    |         |
| 9,900.00                   | 8,835.00            | 9,873.21            | 8,890.00            | 39.31           | 38.90       | -92.88                | 1,910.90                          | 974.01     | 890.84               | 813.01                | 77.83                   | 11.446            |                    |         |
| 10,000.00                  | 8,835.00            | 9,973.21            | 8,890.00            | 40.51           | 40.10       | -92.88                | 1,911.50                          | 1,074.01   | 890.84               | 810.60                | 80.23                   | 11.103            |                    |         |
| 10,100.00                  | 8,835.00            | 10,073.21           | 8,890.00            | 41.78           | 41.38       | -92.88                | 1,912.09                          | 1,174.00   | 890.84               | 808.07                | 82.77                   | 10.763            |                    |         |
| 10,200.00                  | 8,835.00            | 10,173.21           | 8,890.00            | 43.10           | 42.71       | -92.88                | 1,912.69                          | 1,274.00   | 890.84               | 805.41                | 85.43                   | 10.428            |                    |         |
| 10,300.00                  | 8,835.00            | 10,273.21           | 8,890.00            | 44.49           | 44.10       | -92.88                | 1,913.29                          | 1,374.00   | 890.84               | 802.64                | 88.19                   | 10.101            |                    |         |
| 10,400.00                  | 8,835.00            | 10,373.21           | 8,890.00            | 45.92           | 45.54       | -92.88                | 1,913.88                          | 1,474.00   | 890.84               | 799.78                | 91.06                   | 9.783             |                    |         |
| 10,500.00                  | 8,835.00            | 10,473.21           | 8,890.00            | 47.39           | 47.02       | -92.88                | 1,914.48                          | 1,574.00   | 890.84               | 796.82                | 94.02                   | 9.475             |                    |         |
| 10,600.00                  | 8,835.00            | 10,573.21           | 8,890.00            | 48.91           | 48.55       | -92.88                | 1,915.08                          | 1,674.00   | 890.84               | 793.79                | 97.06                   | 9.179             |                    |         |
| 10,700.00                  | 8,835.00            | 10,673.21           | 8,890.00            | 50.47           | 50.11       | -92.88                | 1,915.67                          | 1,773.99   | 890.84               | 790.67                | 100.17                  | 8.893             |                    |         |
| 10,800.00                  | 8,835.00            | 10,773.21           | 8,890.00            | 52.06           | 51.71       | -92.88                | 1,916.27                          | 1,873.99   | 890.84               | 787.49                | 103.35                  | 8.620             |                    |         |
| 10,900.00                  | 8,835.00            | 10,873.21           | 8,890.00            | 53.68           | 53.33       | -92.88                | 1,916.87                          | 1,973.99   | 890.84               | 784.25                | 106.59                  | 8.357             |                    |         |
| 11,000.00                  | 8,835.00            | 10,973.21           | 8,890.00            | 55.32           | 54.99       | -92.88                | 1,917.46                          | 2,073.99   | 890.85               | 780.95                | 109.89                  | 8.107             |                    |         |
| 11,100.00                  | 8,835.00            | 11,073.21           | 8,890.00            | 57.00           | 56.67       | -92.88                | 1,918.06                          | 2,173.99   | 890.85               | 777.60                | 113.24                  | 7.867             |                    |         |
| 11,200.00                  | 8,835.00            | 11,173.21           | 8,890.00            | 58.70           | 58.37       | -92.88                | 1,918.66                          | 2,273.98   | 890.85               | 774.21                | 116.64                  | 7.638             |                    |         |
| 11,300.00                  | 8,835.00            | 11,273.21           | 8,890.00            | 60.41           | 60.10       | -92.88                | 1,919.25                          | 2,373.98   | 890.85               | 770.77                | 120.08                  | 7.419             |                    |         |
| 11,400.00                  | 8,835.00            | 11,373.21           | 8,890.00            | 62.15           | 61.84       | -92.88                | 1,919.85                          | 2,473.98   | 890.85               | 767.29                | 123.56                  | 7.210             |                    |         |
| 11,500.00                  | 8,835.00            | 11,473.21           | 8,890.00            | 63.91           | 63.60       | -92.88                | 1,920.45                          | 2,573.98   | 890.85               | 763.77                | 127.08                  | 7.010             |                    |         |
| 11,600.00                  | 8,835.00            | 11,573.21           | 8,890.00            | 65.69           | 65.38       | -92.88                | 1,921.04                          | 2,673.98   | 890.85               | 760.22                | 130.63                  | 6.820             |                    |         |
| 11,700.00                  | 8,835.00            | 11,673.21           | 8,890.00            | 67.47           | 67.18       | -92.88                | 1,921.64                          | 2,773.98   | 890.85               | 756.64                | 134.21                  | 6.638             |                    |         |
| 11,800.00                  | 8,835.00            | 11,773.21           | 8,890.00            | 69.28           | 68.99       | -92.88                | 1,922.24                          | 2,873.97   | 890.85               | 753.04                | 137.82                  | 6.464             |                    |         |
| 11,900.00                  | 8,835.00            | 11,873.21           | 8,890.00            | 71.09           | 70.81       | -92.88                | 1,922.84                          | 2,973.97   | 890.85               | 749.40                | 141.45                  | 6.298             |                    |         |
| 12,000.00                  | 8,835.00            | 11,973.21           | 8,890.00            | 72.92           | 72.64       | -92.88                | 1,923.43                          | 3,073.97   | 890.85               | 745.74                | 145.11                  | 6.139             |                    |         |
| 12,100.00                  | 8,835.00            | 12,073.21           | 8,890.00            | 74.76           | 74.48       | -92.88                | 1,924.03                          | 3,173.97   | 890.86               | 742.06                | 148.79                  | 5.987             |                    |         |
| 12,200.00                  | 8,835.00            | 12,173.21           | 8,890.00            | 76.61           | 76.34       | -92.88                | 1,924.63                          | 3,273.97   | 890.86               | 738.36                | 152.49                  | 5.842             |                    |         |
| 12,300.00                  | 8,835.00            | 12,273.21           | 8,890.00            | 78.47           | 78.20       | -92.88                | 1,925.22                          | 3,373.97   | 890.86               | 734.64                | 156.21                  | 5.703             |                    |         |
| 12,400.00                  | 8,835.00            | 12,373.21           | 8,890.00            | 80.34           | 80.08       | -92.88                | 1,925.82                          | 3,473.96   | 890.86               | 730.90                | 159.95                  | 5.569             |                    |         |
| 12,500.00                  | 8,835.00            | 12,473.21           | 8,890.00            | 82.22           | 81.96       | -92.88                | 1,926.42                          | 3,573.96   | 890.86               | 727.15                | 163.71                  | 5.442             |                    |         |
| 12,600.00                  | 8,835.00            | 12,573.21           | 8,890.00            | 84.11           | 83.85       | -92.88                | 1,927.01                          | 3,673.96   | 890.86               | 723.38                | 167.48                  | 5.319             |                    |         |
| 12,700.00                  | 8,835.00            | 12,673.21           | 8,890.00            | 86.00           | 85.74       | -92.88                | 1,927.61                          | 3,773.96   | 890.86               | 719.60                | 171.27                  | 5.202             |                    |         |
| 12,800.00                  | 8,835.00            | 12,773.21           | 8,890.00            | 87.90           | 87.65       | -92.88                | 1,928.21                          | 3,873.96   | 890.86               | 715.80                | 175.06                  | 5.089             |                    |         |
| 12,900.00                  | 8,835.00            | 12,873.21           | 8,890.00            | 89.81           | 89.56       | -92.88                | 1,928.80                          | 3,973.95   | 890.86               | 711.99                | 178.88                  | 4.980 Alert       |                    |         |
| 13,000.00                  | 8,835.00            | 12,973.21           | 8,890.00            | 91.72           | 91.47       | -92.88                | 1,929.40                          | 4,073.95   | 890.86               | 708.16                | 182.70                  | 4.876 Alert       |                    |         |
| 13,100.00                  | 8,835.00            | 13,073.21           | 8,890.00            | 93.64           | 93.39       | -92.88                | 1,930.00                          | 4,173.95   | 890.86               | 704.33                | 186.54                  | 4.776 Alert       |                    |         |
| 13,200.00                  | 8,835.00            | 13,173.21           | 8,890.00            | 95.56           | 95.32       | -92.88                | 1,930.59                          | 4,273.95   | 890.86               | 700.48                | 190.38                  | 4.679 Alert       |                    |         |
| 13,300.00                  | 8,835.00            | 13,273.21           | 8,890.00            | 97.49           | 97.25       | -92.88                | 1,931.19                          | 4,373.95   | 890.87               | 696.63                | 194.24                  | 4.587 Alert       |                    |         |
| 13,400.00                  | 8,835.00            | 13,373.21           | 8,890.00            | 99.42           | 99.19       | -92.88                | 1,931.79                          | 4,473.95   | 890.87               | 692.77                | 198.10                  | 4.497 Alert       |                    |         |
| 13,500.00                  | 8,835.00            | 13,473.21           | 8,890.00            | 101.36          | 101.13      | -92.88                | 1,932.38                          | 4,573.94   | 890.87               | 688.89                | 201.97                  | 4.411 Alert       |                    |         |
| 13,600.00                  | 8,835.00            | 13,573.21           | 8,890.00            | 103.30          | 103.07      | -92.88                | 1,932.98                          | 4,673.94   | 890.87               | 685.01                | 205.86                  | 4.328 Alert       |                    |         |
| 13,700.00                  | 8,835.00            | 13,673.21           | 8,890.00            | 105.25          | 105.02      | -92.88                | 1,933.58                          | 4,773.94   | 890.87               | 681.12                | 209.75                  | 4.247 Alert       |                    |         |
| 13,800.00                  | 8,835.00            | 13,773.21           | 8,890.00            | 107.20          | 106.97      | -92.88                | 1,934.17                          | 4,873.94   | 890.87               | 677.23                | 213.64                  | 4.170 Alert       |                    |         |
| 13,900.00                  | 8,835.00            | 13,873.21           | 8,890.00            | 109.15          | 108.92      | -92.88                | 1,934.77                          | 4,973.94   | 890.87               | 673.32                | 217.55                  | 4.095 Alert       |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 332H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Site Error:</b> | 0.00 ft |
|-----------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 0-MWD+IFR1                                                                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                           | Warning |
| Measured Depth (ft)                                                                                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor         |         |
| 14,000.00                                                                                                 | 8,835.00            | 13,973.21           | 8,890.00            | 111.10          | 110.88      | -92.88                | 1,935.37                          | 5,073.94   | 890.87               | 669.42                | 221.46                  | 4.023 Alert               |         |
| 14,100.00                                                                                                 | 8,835.00            | 14,073.21           | 8,890.00            | 113.06          | 112.84      | -92.88                | 1,935.97                          | 5,173.93   | 890.87               | 665.50                | 225.37                  | 3.953 Alert               |         |
| 14,200.00                                                                                                 | 8,835.00            | 14,173.21           | 8,890.00            | 115.03          | 114.81      | -92.88                | 1,936.56                          | 5,273.93   | 890.87               | 661.58                | 229.30                  | 3.885 Alert               |         |
| 14,300.00                                                                                                 | 8,835.00            | 14,273.21           | 8,890.00            | 116.99          | 116.78      | -92.88                | 1,937.16                          | 5,373.93   | 890.87               | 657.65                | 233.23                  | 3.820 Alert               |         |
| 14,400.00                                                                                                 | 8,835.00            | 14,373.21           | 8,890.00            | 118.96          | 118.75      | -92.88                | 1,937.76                          | 5,473.93   | 890.88               | 653.72                | 237.16                  | 3.756 Alert               |         |
| 14,500.00                                                                                                 | 8,835.00            | 14,473.21           | 8,890.00            | 120.93          | 120.72      | -92.88                | 1,938.35                          | 5,573.93   | 890.88               | 649.78                | 241.10                  | 3.695 Alert               |         |
| 14,600.00                                                                                                 | 8,835.00            | 14,573.21           | 8,890.00            | 122.90          | 122.69      | -92.88                | 1,938.95                          | 5,673.92   | 890.88               | 645.84                | 245.04                  | 3.636 Alert               |         |
| 14,700.00                                                                                                 | 8,835.00            | 14,673.21           | 8,890.00            | 124.88          | 124.67      | -92.88                | 1,939.55                          | 5,773.92   | 890.88               | 641.89                | 248.99                  | 3.578 Alert               |         |
| 14,800.00                                                                                                 | 8,835.00            | 14,773.21           | 8,890.00            | 126.86          | 126.65      | -92.88                | 1,940.14                          | 5,873.92   | 890.88               | 637.94                | 252.94                  | 3.522 Alert               |         |
| 14,900.00                                                                                                 | 8,835.00            | 14,873.21           | 8,890.00            | 128.84          | 128.63      | -92.88                | 1,940.74                          | 5,973.92   | 890.88               | 633.98                | 256.90                  | 3.468 Alert               |         |
| 15,000.00                                                                                                 | 8,835.00            | 14,973.21           | 8,890.00            | 130.82          | 130.62      | -92.88                | 1,941.34                          | 6,073.92   | 890.88               | 630.02                | 260.86                  | 3.415 Alert               |         |
| 15,100.00                                                                                                 | 8,835.00            | 15,073.21           | 8,890.00            | 132.80          | 132.60      | -92.88                | 1,941.93                          | 6,173.92   | 890.88               | 626.06                | 264.83                  | 3.364 Alert               |         |
| 15,200.00                                                                                                 | 8,835.00            | 15,173.21           | 8,890.00            | 134.79          | 134.59      | -92.88                | 1,942.53                          | 6,273.91   | 890.88               | 622.09                | 268.80                  | 3.314 Alert               |         |
| 15,300.00                                                                                                 | 8,835.00            | 15,273.21           | 8,890.00            | 136.78          | 136.58      | -92.88                | 1,943.13                          | 6,373.91   | 890.88               | 618.12                | 272.77                  | 3.266 Alert               |         |
| 15,400.00                                                                                                 | 8,835.00            | 15,373.21           | 8,890.00            | 138.76          | 138.57      | -92.88                | 1,943.72                          | 6,473.91   | 890.88               | 614.14                | 276.74                  | 3.219 Alert               |         |
| 15,500.00                                                                                                 | 8,835.00            | 15,473.21           | 8,890.00            | 140.76          | 140.56      | -92.88                | 1,944.32                          | 6,573.91   | 890.89               | 610.16                | 280.72                  | 3.174 Alert               |         |
| 15,600.00                                                                                                 | 8,835.00            | 15,573.21           | 8,890.00            | 142.75          | 142.55      | -92.88                | 1,944.92                          | 6,673.91   | 890.89               | 606.18                | 284.70                  | 3.129 Alert               |         |
| 15,700.00                                                                                                 | 8,835.00            | 15,673.21           | 8,890.00            | 144.74          | 144.55      | -92.88                | 1,945.51                          | 6,773.90   | 890.89               | 602.20                | 288.69                  | 3.086 Alert               |         |
| 15,800.00                                                                                                 | 8,835.00            | 15,773.21           | 8,890.00            | 146.74          | 146.55      | -92.88                | 1,946.11                          | 6,873.90   | 890.89               | 598.21                | 292.68                  | 3.044 Alert               |         |
| 15,900.00                                                                                                 | 8,835.00            | 15,873.21           | 8,890.00            | 148.73          | 148.54      | -92.88                | 1,946.71                          | 6,973.90   | 890.89               | 594.22                | 296.67                  | 3.003 Alert               |         |
| 16,000.00                                                                                                 | 8,835.00            | 15,973.21           | 8,890.00            | 150.73          | 150.54      | -92.88                | 1,947.31                          | 7,073.90   | 890.89               | 590.23                | 300.66                  | 2.963 Alert               |         |
| 16,100.00                                                                                                 | 8,835.00            | 16,073.21           | 8,890.00            | 152.73          | 152.54      | -92.88                | 1,947.90                          | 7,173.90   | 890.89               | 586.24                | 304.65                  | 2.924 Alert               |         |
| 16,200.00                                                                                                 | 8,835.00            | 16,173.21           | 8,890.00            | 154.73          | 154.55      | -92.88                | 1,948.50                          | 7,273.90   | 890.89               | 582.24                | 308.65                  | 2.886 Alert               |         |
| 16,300.00                                                                                                 | 8,835.00            | 16,273.21           | 8,890.00            | 156.73          | 156.55      | -92.88                | 1,949.10                          | 7,373.89   | 890.89               | 578.24                | 312.65                  | 2.849 Alert               |         |
| 16,400.00                                                                                                 | 8,835.00            | 16,373.21           | 8,890.00            | 158.74          | 158.55      | -92.88                | 1,949.69                          | 7,473.89   | 890.89               | 574.24                | 316.66                  | 2.813 Alert               |         |
| 16,500.00                                                                                                 | 8,835.00            | 16,473.21           | 8,890.00            | 160.74          | 160.56      | -92.88                | 1,950.29                          | 7,573.89   | 890.89               | 570.24                | 320.66                  | 2.778 Alert               |         |
| 16,600.00                                                                                                 | 8,835.00            | 16,573.21           | 8,890.00            | 162.74          | 162.56      | -92.88                | 1,950.89                          | 7,673.89   | 890.90               | 566.23                | 324.67                  | 2.744 Alert               |         |
| 16,700.00                                                                                                 | 8,835.00            | 16,673.21           | 8,890.00            | 164.75          | 164.57      | -92.88                | 1,951.48                          | 7,773.89   | 890.90               | 562.22                | 328.68                  | 2.711 Alert               |         |
| 16,800.00                                                                                                 | 8,835.00            | 16,773.21           | 8,890.00            | 166.76          | 166.58      | -92.88                | 1,952.08                          | 7,873.89   | 890.90               | 558.21                | 332.69                  | 2.678 Alert               |         |
| 16,900.00                                                                                                 | 8,835.00            | 16,873.21           | 8,890.00            | 168.77          | 168.59      | -92.88                | 1,952.68                          | 7,973.88   | 890.90               | 554.20                | 336.70                  | 2.646 Alert               |         |
| 17,000.00                                                                                                 | 8,835.00            | 16,973.21           | 8,890.00            | 170.77          | 170.60      | -92.88                | 1,953.27                          | 8,073.88   | 890.90               | 550.19                | 340.71                  | 2.615 Alert               |         |
| 17,100.00                                                                                                 | 8,835.00            | 17,073.21           | 8,890.00            | 172.78          | 172.61      | -92.88                | 1,953.87                          | 8,173.88   | 890.90               | 546.17                | 344.73                  | 2.584 Alert               |         |
| 17,200.00                                                                                                 | 8,835.00            | 17,173.21           | 8,890.00            | 174.79          | 174.62      | -92.88                | 1,954.47                          | 8,273.88   | 890.90               | 542.16                | 348.75                  | 2.555 Alert               |         |
| 17,300.00                                                                                                 | 8,835.00            | 17,273.21           | 8,890.00            | 176.81          | 176.63      | -92.88                | 1,955.06                          | 8,373.88   | 890.90               | 538.14                | 352.76                  | 2.525 Alert               |         |
| 17,400.00                                                                                                 | 8,835.00            | 17,373.21           | 8,890.00            | 178.82          | 178.65      | -92.88                | 1,955.66                          | 8,473.87   | 890.90               | 534.12                | 356.79                  | 2.497 Minor Risk          |         |
| 17,500.00                                                                                                 | 8,835.00            | 17,473.21           | 8,890.00            | 180.83          | 180.66      | -92.88                | 1,956.26                          | 8,573.87   | 890.90               | 530.10                | 360.81                  | 2.469 Minor Risk          |         |
| 17,600.00                                                                                                 | 8,835.00            | 17,573.21           | 8,890.00            | 182.84          | 182.67      | -92.88                | 1,956.85                          | 8,673.87   | 890.90               | 526.07                | 364.83                  | 2.442 Minor Risk          |         |
| 17,700.00                                                                                                 | 8,835.00            | 17,673.21           | 8,890.00            | 184.86          | 184.69      | -92.88                | 1,957.45                          | 8,773.87   | 890.91               | 522.05                | 368.86                  | 2.415 Minor Risk          |         |
| 17,800.00                                                                                                 | 8,835.00            | 17,773.21           | 8,890.00            | 186.87          | 186.71      | -92.88                | 1,958.05                          | 8,873.87   | 890.91               | 518.02                | 372.88                  | 2.389 Minor Risk          |         |
| 17,900.00                                                                                                 | 8,835.00            | 17,873.21           | 8,890.00            | 188.89          | 188.72      | -92.88                | 1,958.64                          | 8,973.87   | 890.91               | 514.00                | 376.91                  | 2.364 Minor Risk          |         |
| 18,000.00                                                                                                 | 8,835.00            | 17,973.21           | 8,890.00            | 190.91          | 190.74      | -92.88                | 1,959.24                          | 9,073.86   | 890.91               | 509.97                | 380.94                  | 2.339 Minor Risk          |         |
| 18,100.00                                                                                                 | 8,835.00            | 18,073.21           | 8,890.00            | 192.92          | 192.76      | -92.88                | 1,959.84                          | 9,173.86   | 890.91               | 505.94                | 384.97                  | 2.314 Minor Risk          |         |
| 18,200.00                                                                                                 | 8,835.00            | 18,173.21           | 8,890.00            | 194.94          | 194.78      | -92.88                | 1,960.44                          | 9,273.86   | 890.91               | 501.91                | 389.00                  | 2.290 Minor Risk          |         |
| 18,300.00                                                                                                 | 8,835.00            | 18,273.21           | 8,890.00            | 196.96          | 196.80      | -92.88                | 1,961.03                          | 9,373.86   | 890.91               | 497.88                | 393.03                  | 2.267 Minor Risk          |         |
| 18,400.00                                                                                                 | 8,835.00            | 18,373.21           | 8,890.00            | 198.98          | 198.82      | -92.88                | 1,961.63                          | 9,473.86   | 890.91               | 493.84                | 397.07                  | 2.244 Minor Risk          |         |
| 18,500.00                                                                                                 | 8,835.00            | 18,473.21           | 8,890.00            | 201.00          | 200.84      | -92.88                | 1,962.23                          | 9,573.86   | 890.91               | 489.81                | 401.10                  | 2.221 Minor Risk          |         |
| 18,600.00                                                                                                 | 8,835.00            | 18,573.21           | 8,890.00            | 203.02          | 202.86      | -92.88                | 1,962.82                          | 9,673.85   | 890.91               | 485.78                | 405.14                  | 2.199 Minor Risk          |         |
| 18,700.00                                                                                                 | 8,835.00            | 18,673.21           | 8,890.00            | 205.04          | 204.88      | -92.88                | 1,963.42                          | 9,773.85   | 890.91               | 481.74                | 409.18                  | 2.177 Minor Risk          |         |
| 18,800.00                                                                                                 | 8,835.00            | 18,773.21           | 8,890.00            | 207.06          | 206.90      | -92.88                | 1,964.02                          | 9,873.85   | 890.92               | 477.70                | 413.21                  | 2.156 Minor Risk          |         |
| 18,900.00                                                                                                 | 8,835.00            | 18,873.21           | 8,890.00            | 209.08          | 208.92      | -92.88                | 1,964.61                          | 9,973.85   | 890.92               | 473.66                | 417.25                  | 2.135 Minor Risk          |         |
| 19,000.00                                                                                                 | 8,835.00            | 18,973.21           | 8,890.00            | 211.10          | 210.94      | -92.88                | 1,965.21                          | 10,073.85  | 890.92               | 469.63                | 421.29                  | 2.115 Minor Risk          |         |
| 19,100.00                                                                                                 | 8,835.00            | 19,073.21           | 8,890.00            | 213.12          | 212.97      | -92.88                | 1,965.81                          | 10,173.84  | 890.92               | 465.59                | 425.33                  | 2.095 Minor Risk          |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 332H - Wellbore #1 - Permit Plan 1 |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 0.00 ft            |
|-----------------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|--------------------|
| Survey Program: 0-MWD+IFR1                                                                                |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 0.50 ft            |
| Reference                                                                                                 |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                           | Warning            |
| Measured Depth<br>(ft)                                                                                    | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |                    |
| 19,200.00                                                                                                 | 8,835.00               | 19,173.21              | 8,890.00               | 215.15            | 214.99         | -92.88                      | 1,966.40                                | 10,273.84     | 890.92                     | 461.55                      | 429.37                        | 2.075                     | Minor Risk         |
| 19,308.27                                                                                                 | 8,835.00               | 19,281.48              | 8,890.00               | 217.34            | 217.18         | -92.88                      | 1,967.05                                | 10,382.11     | 890.92                     | 457.17                      | 433.75                        | 2.054                     | Minor Risk, ES, SF |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Site Error:       | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Well Error:       | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                          | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor        |         |
| 0.00                       | 0.00                | 0.30                | -0.30               | 0.50            | 0.50        | 179.89                | -29.97                            | 0.06       | 29.97                |                       |                         |                          |         |
| 100.00                     | 100.00              | 100.30              | 99.70               | 0.52            | 0.52        | 179.89                | -29.97                            | 0.06       | 29.97                | 28.93                 | 1.04                    | 28.935                   |         |
| 200.00                     | 200.00              | 200.30              | 199.70              | 0.70            | 0.70        | 179.89                | -29.97                            | 0.06       | 29.97                | 28.57                 | 1.40                    | 21.332                   |         |
| 300.00                     | 300.00              | 300.30              | 299.70              | 0.99            | 0.99        | 179.89                | -29.97                            | 0.06       | 29.97                | 27.99                 | 1.98                    | 15.170                   |         |
| 400.00                     | 400.00              | 400.30              | 399.70              | 1.31            | 1.31        | 179.89                | -29.97                            | 0.06       | 29.97                | 27.35                 | 2.62                    | 11.443                   |         |
| 500.00                     | 500.00              | 500.30              | 499.70              | 1.65            | 1.65        | 179.89                | -29.97                            | 0.06       | 29.97                | 26.68                 | 3.29                    | 9.101                    |         |
| 600.00                     | 600.00              | 600.30              | 599.70              | 1.99            | 1.99        | 179.89                | -29.97                            | 0.06       | 29.97                | 25.99                 | 3.98                    | 7.526                    |         |
| 700.00                     | 700.00              | 700.30              | 699.70              | 2.34            | 2.34        | 179.89                | -29.97                            | 0.06       | 29.97                | 25.29                 | 4.68                    | 6.404                    |         |
| 800.00                     | 800.00              | 800.30              | 799.70              | 2.69            | 2.69        | 179.89                | -29.97                            | 0.06       | 29.97                | 24.59                 | 5.38                    | 5.568                    |         |
| 900.00                     | 900.00              | 900.30              | 899.70              | 3.04            | 3.04        | 179.89                | -29.97                            | 0.06       | 29.97                | 23.88                 | 6.09                    | 4.923 Alert              |         |
| 1,000.00                   | 1,000.00            | 1,000.30            | 999.70              | 3.40            | 3.40        | 179.89                | -29.97                            | 0.06       | 29.97                | 23.17                 | 6.80                    | 4.410 Alert              |         |
| 1,100.00                   | 1,100.00            | 1,100.30            | 1,099.70            | 3.75            | 3.75        | 179.89                | -29.97                            | 0.06       | 29.97                | 22.46                 | 7.51                    | 3.993 Alert              |         |
| 1,200.00                   | 1,200.00            | 1,200.30            | 1,199.70            | 4.11            | 4.11        | 179.89                | -29.97                            | 0.06       | 29.97                | 21.75                 | 8.22                    | 3.647 Alert              |         |
| 1,300.00                   | 1,300.00            | 1,300.30            | 1,299.70            | 4.46            | 4.47        | 179.89                | -29.97                            | 0.06       | 29.97                | 21.04                 | 8.93                    | 3.356 Alert              |         |
| 1,400.00                   | 1,400.00            | 1,400.30            | 1,399.70            | 4.82            | 4.82        | 179.89                | -29.97                            | 0.06       | 29.97                | 20.33                 | 9.64                    | 3.108 Alert              |         |
| 1,500.00                   | 1,500.00            | 1,500.30            | 1,499.70            | 5.18            | 5.18        | 179.89                | -29.97                            | 0.06       | 29.97                | 19.61                 | 10.36                   | 2.894 Alert              |         |
| 1,600.00                   | 1,600.00            | 1,600.30            | 1,599.70            | 5.53            | 5.54        | 179.89                | -29.97                            | 0.06       | 29.97                | 18.90                 | 11.07                   | 2.707 Alert              |         |
| 1,700.00                   | 1,700.00            | 1,700.30            | 1,699.70            | 5.89            | 5.89        | 179.89                | -29.97                            | 0.06       | 29.97                | 18.19                 | 11.78                   | 2.543 Alert              |         |
| 1,800.00                   | 1,800.00            | 1,800.30            | 1,799.70            | 6.25            | 6.25        | 179.89                | -29.97                            | 0.06       | 29.97                | 17.47                 | 12.50                   | 2.398 Minor Risk         |         |
| 1,900.00                   | 1,900.00            | 1,900.30            | 1,899.70            | 6.61            | 6.61        | 179.89                | -29.97                            | 0.06       | 29.97                | 16.76                 | 13.21                   | 2.268 Minor Risk         |         |
| 2,000.00                   | 2,000.00            | 2,000.30            | 1,999.70            | 6.96            | 6.96        | 179.89                | -29.97                            | 0.06       | 29.97                | 16.04                 | 13.93                   | 2.152 Minor Risk, CC, ES |         |
| 2,100.00                   | 2,099.99            | 2,100.31            | 2,099.69            | 7.32            | 7.32        | -167.69               | -29.97                            | 0.06       | 30.82                | 16.18                 | 14.64                   | 2.105 Minor Risk         |         |
| 2,200.00                   | 2,199.96            | 2,200.34            | 2,199.66            | 7.68            | 7.68        | -168.64               | -29.97                            | 0.06       | 33.38                | 18.03                 | 15.36                   | 2.174 Minor Risk         |         |
| 2,300.00                   | 2,299.86            | 2,300.44            | 2,299.56            | 8.04            | 8.04        | -169.94               | -29.97                            | 0.06       | 37.67                | 21.60                 | 16.07                   | 2.344 Minor Risk         |         |
| 2,400.00                   | 2,399.68            | 2,400.62            | 2,399.38            | 8.39            | 8.40        | -171.33               | -29.97                            | 0.06       | 43.69                | 26.91                 | 16.79                   | 2.603 Alert              |         |
| 2,500.00                   | 2,499.37            | 2,500.93            | 2,499.07            | 8.75            | 8.76        | -172.64               | -29.97                            | 0.06       | 51.46                | 33.96                 | 17.51                   | 2.940 Alert              |         |
| 2,600.00                   | 2,598.90            | 2,601.40            | 2,598.60            | 9.11            | 9.11        | -173.78               | -29.97                            | 0.06       | 60.98                | 42.76                 | 18.22                   | 3.347 Alert              |         |
| 2,700.00                   | 2,698.26            | 2,702.04            | 2,697.96            | 9.46            | 9.48        | -174.74               | -29.97                            | 0.06       | 72.25                | 53.31                 | 18.94                   | 3.815 Alert              |         |
| 2,800.00                   | 2,797.40            | 2,802.90            | 2,797.10            | 9.82            | 9.84        | -175.54               | -29.97                            | 0.06       | 85.25                | 65.60                 | 19.66                   | 4.337 Alert              |         |
| 2,900.00                   | 2,896.30            | 2,904.00            | 2,896.00            | 10.18           | 10.20       | -176.19               | -29.97                            | 0.06       | 100.00               | 79.62                 | 20.38                   | 4.908 Alert              |         |
| 3,000.00                   | 2,994.93            | 3,005.37            | 2,994.63            | 10.54           | 10.56       | -176.72               | -29.97                            | 0.06       | 116.47               | 95.38                 | 21.10                   | 5.521                    |         |
| 3,100.00                   | 3,093.26            | 3,107.05            | 3,092.96            | 10.90           | 10.93       | -177.15               | -29.97                            | 0.06       | 134.67               | 112.85                | 21.82                   | 6.173                    |         |
| 3,195.07                   | 3,186.42            | 3,186.12            | 3,186.12            | 11.24           | 11.21       | -177.49               | -29.97                            | 0.06       | 153.56               | 131.12                | 22.44                   | 6.844                    |         |
| 3,200.00                   | 3,191.25            | 3,209.05            | 3,190.95            | 11.26           | 11.29       | -177.51               | -29.97                            | 0.06       | 154.58               | 132.04                | 22.54                   | 6.858                    |         |
| 3,300.00                   | 3,289.08            | 3,288.78            | 3,288.78            | 11.62           | 11.58       | -177.80               | -29.97                            | 0.06       | 175.27               | 152.09                | 23.18                   | 7.561                    |         |
| 3,400.00                   | 3,386.91            | 3,386.61            | 3,386.61            | 11.98           | 11.93       | -178.04               | -29.97                            | 0.06       | 195.97               | 172.08                | 23.89                   | 8.203                    |         |
| 3,500.00                   | 3,484.74            | 3,484.44            | 3,484.44            | 12.35           | 12.28       | -178.22               | -29.97                            | 0.06       | 216.66               | 192.07                | 24.60                   | 8.808                    |         |
| 3,600.00                   | 3,582.58            | 3,582.28            | 3,582.28            | 12.72           | 12.63       | -178.38               | -29.97                            | 0.06       | 237.36               | 212.05                | 25.31                   | 9.378                    |         |
| 3,700.00                   | 3,680.41            | 3,680.11            | 3,680.11            | 13.09           | 12.98       | -178.51               | -29.97                            | 0.06       | 258.06               | 232.04                | 26.02                   | 9.917                    |         |
| 3,800.00                   | 3,778.24            | 3,777.94            | 3,777.94            | 13.46           | 13.33       | -178.62               | -29.97                            | 0.06       | 278.76               | 252.03                | 26.73                   | 10.427                   |         |
| 3,900.00                   | 3,876.08            | 3,875.78            | 3,875.78            | 13.83           | 13.68       | -178.71               | -29.97                            | 0.06       | 299.46               | 272.02                | 27.45                   | 10.910                   |         |
| 4,000.00                   | 3,973.91            | 3,973.61            | 3,973.61            | 14.21           | 14.03       | -178.80               | -29.97                            | 0.06       | 320.17               | 292.00                | 28.16                   | 11.368                   |         |
| 4,100.00                   | 4,071.74            | 4,074.35            | 4,074.35            | 14.58           | 14.39       | -178.81               | -29.73                            | -0.36      | 340.56               | 311.67                | 28.89                   | 11.787                   |         |
| 4,200.00                   | 4,169.57            | 4,176.56            | 4,176.53            | 14.96           | 14.75       | -178.61               | -28.63                            | -2.31      | 359.86               | 330.23                | 29.63                   | 12.147                   |         |
| 4,300.00                   | 4,267.41            | 4,279.18            | 4,279.07            | 15.33           | 15.10       | -178.21               | -26.62                            | -5.86      | 378.01               | 347.66                | 30.36                   | 12.452                   |         |
| 4,400.00                   | 4,365.24            | 4,382.14            | 4,381.86            | 15.71           | 15.47       | -177.65               | -23.70                            | -11.03     | 395.05               | 363.95                | 31.09                   | 12.706                   |         |
| 4,500.00                   | 4,463.07            | 4,482.18            | 4,481.65            | 16.09           | 15.82       | -176.99               | -20.19                            | -17.25     | 411.25               | 379.43                | 31.82                   | 12.926                   |         |
| 4,600.00                   | 4,560.90            | 4,580.77            | 4,579.97            | 16.47           | 16.17       | -176.39               | -16.67                            | -23.46     | 427.44               | 394.90                | 32.53                   | 13.138                   |         |
| 4,700.00                   | 4,658.74            | 4,679.35            | 4,678.30            | 16.85           | 16.51       | -175.83               | -13.16                            | -29.67     | 443.67               | 410.42                | 33.26                   | 13.341                   |         |
| 4,800.00                   | 4,756.57            | 4,777.94            | 4,776.62            | 17.23           | 16.86       | -175.31               | -9.65                             | -35.88     | 459.94               | 425.97                | 33.98                   | 13.537                   |         |
| 4,900.00                   | 4,854.40            | 4,876.52            | 4,874.95            | 17.61           | 17.21       | -174.82               | -6.14                             | -42.10     | 476.25               | 441.55                | 34.70                   | 13.725                   |         |
| 5,000.00                   | 4,952.23            | 4,975.10            | 4,973.27            | 17.99           | 17.56       | -174.37               | -2.63                             | -48.31     | 492.59               | 457.16                | 35.42                   | 13.906                   |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                   | 5,050.07            | 5,073.69            | 5,071.60            | 18.37           | 17.91       | -173.94               | 0.88                              | -54.52     | 508.95               | 472.81                | 36.15                   | 14.080            |                    |         |
| 5,200.00                   | 5,147.90            | 5,172.27            | 5,169.92            | 18.75           | 18.26       | -173.55               | 4.39                              | -60.73     | 525.34               | 488.47                | 36.87                   | 14.248            |                    |         |
| 5,300.00                   | 5,245.73            | 5,270.86            | 5,268.25            | 19.14           | 18.61       | -173.17               | 7.90                              | -66.94     | 541.76               | 504.16                | 37.60                   | 14.410            |                    |         |
| 5,400.00                   | 5,343.56            | 5,369.44            | 5,366.57            | 19.52           | 18.96       | -172.82               | 11.41                             | -73.15     | 558.19               | 519.87                | 38.32                   | 14.565            |                    |         |
| 5,500.00                   | 5,441.40            | 5,468.02            | 5,464.90            | 19.90           | 19.31       | -172.49               | 14.92                             | -79.36     | 574.65               | 535.60                | 39.05                   | 14.716            |                    |         |
| 5,600.00                   | 5,539.23            | 5,566.61            | 5,563.22            | 20.29           | 19.66       | -172.18               | 18.43                             | -85.57     | 591.12               | 551.34                | 39.78                   | 14.861            |                    |         |
| 5,700.00                   | 5,637.06            | 5,665.19            | 5,661.55            | 20.67           | 20.01       | -171.88               | 21.94                             | -91.79     | 607.61               | 567.10                | 40.51                   | 15.001            |                    |         |
| 5,800.00                   | 5,734.90            | 5,763.77            | 5,759.87            | 21.05           | 20.36       | -171.60               | 25.45                             | -98.00     | 624.11               | 582.88                | 41.23                   | 15.136            |                    |         |
| 5,900.00                   | 5,832.73            | 5,862.36            | 5,858.20            | 21.44           | 20.71       | -171.33               | 28.96                             | -104.21    | 640.63               | 598.67                | 41.96                   | 15.266            |                    |         |
| 6,000.00                   | 5,930.56            | 5,960.94            | 5,956.53            | 21.83           | 21.06       | -171.08               | 32.47                             | -110.42    | 657.16               | 614.47                | 42.69                   | 15.393            |                    |         |
| 6,100.00                   | 6,028.39            | 6,059.53            | 6,054.85            | 22.21           | 21.42       | -170.84               | 35.99                             | -116.63    | 673.70               | 630.28                | 43.42                   | 15.515            |                    |         |
| 6,200.00                   | 6,126.23            | 6,158.11            | 6,153.18            | 22.60           | 21.77       | -170.61               | 39.50                             | -122.84    | 690.26               | 646.10                | 44.15                   | 15.633            |                    |         |
| 6,300.00                   | 6,224.06            | 6,256.69            | 6,251.50            | 22.98           | 22.12       | -170.39               | 43.01                             | -129.05    | 706.82               | 661.94                | 44.88                   | 15.747            |                    |         |
| 6,400.00                   | 6,321.89            | 6,355.28            | 6,349.83            | 23.37           | 22.47       | -170.18               | 46.52                             | -135.26    | 723.39               | 677.78                | 45.62                   | 15.858            |                    |         |
| 6,500.00                   | 6,419.72            | 6,453.86            | 6,448.15            | 23.76           | 22.83       | -169.99               | 50.03                             | -141.47    | 739.98               | 693.63                | 46.35                   | 15.966            |                    |         |
| 6,600.00                   | 6,517.56            | 6,552.44            | 6,546.48            | 24.14           | 23.18       | -169.79               | 53.54                             | -147.69    | 756.57               | 709.49                | 47.08                   | 16.070            |                    |         |
| 6,700.00                   | 6,615.39            | 6,651.03            | 6,644.80            | 24.53           | 23.53       | -169.61               | 57.05                             | -153.90    | 773.16               | 725.35                | 47.81                   | 16.171            |                    |         |
| 6,800.00                   | 6,713.22            | 6,749.61            | 6,743.13            | 24.92           | 23.89       | -169.44               | 60.56                             | -160.11    | 789.77               | 741.22                | 48.55                   | 16.269            |                    |         |
| 6,900.00                   | 6,811.05            | 6,848.20            | 6,841.45            | 25.30           | 24.24       | -169.27               | 64.07                             | -166.32    | 806.38               | 757.10                | 49.28                   | 16.364            |                    |         |
| 7,000.00                   | 6,908.89            | 6,946.78            | 6,939.78            | 25.69           | 24.59       | -169.11               | 67.58                             | -172.53    | 823.00               | 772.99                | 50.01                   | 16.456            |                    |         |
| 7,100.00                   | 7,006.72            | 7,045.36            | 7,038.10            | 26.08           | 24.95       | -168.96               | 71.09                             | -178.74    | 839.62               | 788.88                | 50.75                   | 16.546            |                    |         |
| 7,200.00                   | 7,104.55            | 7,143.95            | 7,136.43            | 26.47           | 25.30       | -168.81               | 74.60                             | -184.95    | 856.25               | 804.77                | 51.48                   | 16.633            |                    |         |
| 7,216.87                   | 7,121.05            | 7,160.58            | 7,153.01            | 26.53           | 25.36       | -168.78               | 75.19                             | -186.00    | 859.06               | 807.46                | 51.60                   | 16.647            |                    |         |
| 7,300.00                   | 7,202.57            | 7,242.67            | 7,234.89            | 26.85           | 25.65       | -168.69               | 78.12                             | -191.17    | 872.01               | 819.80                | 52.21                   | 16.701            |                    |         |
| 7,400.00                   | 7,301.06            | 7,341.74            | 7,333.71            | 27.23           | 26.01       | -168.55               | 81.65                             | -197.41    | 885.28               | 832.33                | 52.95                   | 16.720            |                    |         |
| 7,500.00                   | 7,399.97            | 7,441.11            | 7,432.81            | 27.61           | 26.37       | -168.37               | 85.18                             | -203.67    | 896.00               | 842.33                | 53.68                   | 16.693            |                    |         |
| 7,600.00                   | 7,499.23            | 7,540.70            | 7,532.14            | 27.98           | 26.73       | -168.16               | 88.73                             | -209.95    | 904.19               | 849.79                | 54.40                   | 16.621            |                    |         |
| 7,700.00                   | 7,598.77            | 7,640.45            | 7,631.63            | 28.34           | 27.08       | -167.90               | 92.28                             | -216.23    | 909.84               | 854.72                | 55.12                   | 16.505            |                    |         |
| 7,800.00                   | 7,698.53            | 7,738.08            | 7,729.00            | 28.70           | 27.44       | -167.62               | 95.74                             | -222.35    | 912.98               | 857.15                | 55.83                   | 16.353            |                    |         |
| 7,900.00                   | 7,798.44            | 7,827.37            | 7,818.16            | 29.05           | 27.76       | -167.41               | 98.19                             | -226.69    | 914.38               | 857.91                | 56.48                   | 16.190            |                    |         |
| 8,000.00                   | 7,898.42            | 7,916.77            | 7,907.50            | 29.39           | 28.07       | -167.27               | 99.62                             | -229.22    | 914.40               | 857.29                | 57.11                   | 16.010            |                    |         |
| 8,013.58                   | 7,912.00            | 7,928.91            | 7,919.64            | 29.43           | 28.12       | 179.96                | 99.74                             | -229.42    | 914.30               | 857.10                | 57.20                   | 15.985            |                    |         |
| 8,100.00                   | 7,998.42            | 8,007.39            | 7,998.12            | 29.73           | 28.40       | 180.00                | 100.03                            | -229.94    | 913.97               | 856.22                | 57.75                   | 15.827            |                    |         |
| 8,200.00                   | 8,098.42            | 8,107.39            | 8,098.12            | 30.07           | 28.75       | 180.00                | 100.03                            | -229.94    | 913.97               | 855.52                | 58.45                   | 15.638            |                    |         |
| 8,300.00                   | 8,198.42            | 8,207.39            | 8,198.12            | 30.41           | 29.11       | 180.00                | 100.03                            | -229.94    | 913.97               | 854.82                | 59.15                   | 15.453            |                    |         |
| 8,363.62                   | 8,262.04            | 8,271.01            | 8,261.74            | 30.62           | 29.33       | 180.00                | 100.03                            | -229.94    | 913.97               | 854.38                | 59.59                   | 15.338            |                    |         |
| 8,400.00                   | 8,298.40            | 8,307.37            | 8,298.10            | 30.75           | 29.46       | 90.41                 | 100.03                            | -229.94    | 913.98               | 854.14                | 59.84                   | 15.273            |                    |         |
| 8,450.00                   | 8,348.10            | 8,357.38            | 8,348.11            | 30.91           | 29.64       | 90.73                 | 100.03                            | -229.83    | 914.03               | 853.85                | 60.18                   | 15.188            |                    |         |
| 8,500.00                   | 8,397.14            | 8,408.72            | 8,399.33            | 31.07           | 29.81       | 91.14                 | 100.07                            | -226.54    | 914.12               | 853.60                | 60.52                   | 15.103            |                    |         |
| 8,550.00                   | 8,445.15            | 8,460.68            | 8,450.65            | 31.23           | 29.98       | 91.55                 | 100.16                            | -218.56    | 914.23               | 853.36                | 60.87                   | 15.019            |                    |         |
| 8,600.00                   | 8,491.77            | 8,513.27            | 8,501.64            | 31.38           | 30.16       | 91.94                 | 100.30                            | -205.79    | 914.36               | 853.14                | 61.22                   | 14.936            |                    |         |
| 8,650.00                   | 8,536.65            | 8,566.48            | 8,551.83            | 31.52           | 30.33       | 92.32                 | 100.49                            | -188.16    | 914.50               | 852.93                | 61.56                   | 14.854            |                    |         |
| 8,700.00                   | 8,579.43            | 8,620.31            | 8,600.72            | 31.66           | 30.50       | 92.68                 | 100.74                            | -165.66    | 914.64               | 852.73                | 61.91                   | 14.773            |                    |         |
| 8,750.00                   | 8,619.80            | 8,674.75            | 8,647.78            | 31.80           | 30.68       | 93.03                 | 101.04                            | -138.36    | 914.77               | 852.51                | 62.26                   | 14.693            |                    |         |
| 8,800.00                   | 8,657.44            | 8,729.76            | 8,692.50            | 31.93           | 30.85       | 93.35                 | 101.39                            | -106.36    | 914.89               | 852.29                | 62.61                   | 14.614            |                    |         |
| 8,850.00                   | 8,692.08            | 8,785.31            | 8,734.33            | 32.06           | 31.03       | 93.64                 | 101.79                            | -69.84     | 915.00               | 852.04                | 62.96                   | 14.533            |                    |         |
| 8,900.00                   | 8,723.44            | 8,841.35            | 8,772.75            | 32.19           | 31.22       | 93.91                 | 102.24                            | -29.07     | 915.07               | 851.74                | 63.33                   | 14.450            |                    |         |
| 8,950.00                   | 8,751.29            | 8,897.84            | 8,807.26            | 32.34           | 31.41       | 94.14                 | 102.73                            | 15.62      | 915.10               | 851.39                | 63.71                   | 14.363            |                    |         |
| 9,000.00                   | 8,775.42            | 8,954.71            | 8,837.38            | 32.50           | 31.63       | 94.34                 | 103.26                            | 63.83      | 915.09               | 850.97                | 64.13                   | 14.270            |                    |         |
| 9,050.00                   | 8,795.64            | 9,011.90            | 8,862.71            | 32.67           | 31.86       | 94.50                 | 103.82                            | 115.07     | 915.03               | 850.46                | 64.58                   | 14.170            |                    |         |
| 9,100.00                   | 8,811.80            | 9,069.31            | 8,882.88            | 32.87           | 32.12       | 94.61                 | 104.42                            | 168.80     | 914.92               | 849.85                | 65.06                   | 14.062            |                    |         |
| 9,150.00                   | 8,823.77            | 9,126.88            | 8,897.60            | 33.10           | 32.40       | 94.69                 | 105.03                            | 224.42     | 914.74               | 849.15                | 65.59                   | 13.947            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |             | Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 334H - Wellbore #1 - Permit Plan 1 |         | Offset Site Error: 0.00 ft |  |
|----------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|-------------|--------------------------------------------------------------------------------------|---------|----------------------------|--|
| Survey Program: 0-MWD+IFR1 |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |             | Offset Well Error: 0.50 ft                                                           |         |                            |  |
| Reference                  |                | Offset         |                | Semi Major Axis |        |                   | Distance               |                 |                  |                    |                   |             |                                                                                      | Warning |                            |  |
| Measured Depth             | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor |             |                                                                                      |         |                            |  |
| (ft)                       | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft)      | (ft)             | (ft)               | (ft)              |             |                                                                                      |         |                            |  |
| 9,200.00                   | 8,831.47       | 9,184.51       | 8,906.67       | 33.34           | 32.70  | 94.73             | 105.65                 | 281.31          | 914.51           | 848.36             | 66.15             | 13.824      |                                                                                      |         |                            |  |
| 9,250.00                   | 8,834.84       | 9,242.13       | 8,909.98       | 33.60           | 33.03  | 94.73             | 106.28                 | 338.80          | 914.22           | 847.47             | 66.75             | 13.696      |                                                                                      |         |                            |  |
| 9,263.62                   | 8,835.00       | 9,256.30       | 8,910.00       | 33.67           | 33.11  | 94.73             | 106.44                 | 352.97          | 914.14           | 847.22             | 66.91             | 13.662      |                                                                                      |         |                            |  |
| 9,300.00                   | 8,835.00       | 9,307.32       | 8,910.00       | 33.88           | 33.43  | 94.73             | 106.84                 | 389.35          | 913.95           | 846.51             | 67.45             | 13.551      |                                                                                      |         |                            |  |
| 9,400.00                   | 8,835.00       | 9,407.33       | 8,910.00       | 34.53           | 34.13  | 94.73             | 107.94                 | 489.34          | 913.45           | 844.63             | 68.82             | 13.272      |                                                                                      |         |                            |  |
| 9,500.00                   | 8,835.00       | 9,507.33       | 8,910.00       | 35.30           | 34.94  | 94.73             | 109.04                 | 589.33          | 912.95           | 842.54             | 70.41             | 12.966      |                                                                                      |         |                            |  |
| 9,600.00                   | 8,835.00       | 9,607.33       | 8,910.00       | 36.17           | 35.85  | 94.73             | 110.14                 | 689.32          | 912.45           | 840.25             | 72.20             | 12.638      |                                                                                      |         |                            |  |
| 9,700.00                   | 8,835.00       | 9,707.33       | 8,910.00       | 37.13           | 36.85  | 94.74             | 111.24                 | 789.32          | 911.94           | 837.78             | 74.16             | 12.296      |                                                                                      |         |                            |  |
| 9,800.00                   | 8,835.00       | 9,807.33       | 8,910.00       | 38.18           | 37.93  | 94.74             | 112.34                 | 889.31          | 911.44           | 835.14             | 76.30             | 11.946      |                                                                                      |         |                            |  |
| 9,900.00                   | 8,835.00       | 9,907.33       | 8,910.00       | 39.31           | 39.10  | 94.74             | 113.44                 | 989.30          | 910.94           | 832.35             | 78.59             | 11.592      |                                                                                      |         |                            |  |
| 10,000.00                  | 8,835.00       | 10,007.33      | 8,910.00       | 40.51           | 40.33  | 94.74             | 114.54                 | 1,089.29        | 910.44           | 829.42             | 81.02             | 11.238      |                                                                                      |         |                            |  |
| 10,100.00                  | 8,835.00       | 10,107.33      | 8,910.00       | 41.78           | 41.62  | 94.75             | 115.64                 | 1,189.29        | 909.94           | 826.36             | 83.57             | 10.888      |                                                                                      |         |                            |  |
| 10,200.00                  | 8,835.00       | 10,207.34      | 8,910.00       | 43.10           | 42.98  | 94.75             | 116.74                 | 1,289.28        | 909.43           | 823.18             | 86.25             | 10.544      |                                                                                      |         |                            |  |
| 10,300.00                  | 8,835.00       | 10,307.34      | 8,910.00       | 44.49           | 44.38  | 94.75             | 117.84                 | 1,389.27        | 908.93           | 819.90             | 89.03             | 10.209      |                                                                                      |         |                            |  |
| 10,400.00                  | 8,835.00       | 10,407.34      | 8,910.00       | 45.92           | 45.84  | 94.75             | 118.94                 | 1,489.27        | 908.43           | 816.52             | 91.91             | 9.884       |                                                                                      |         |                            |  |
| 10,500.00                  | 8,835.00       | 10,507.34      | 8,910.00       | 47.39           | 47.34  | 94.76             | 120.04                 | 1,589.26        | 907.93           | 813.05             | 94.88             | 9.570       |                                                                                      |         |                            |  |
| 10,600.00                  | 8,835.00       | 10,607.34      | 8,910.00       | 48.91           | 48.87  | 94.76             | 121.14                 | 1,689.25        | 907.43           | 809.50             | 97.92             | 9.267       |                                                                                      |         |                            |  |
| 10,700.00                  | 8,835.00       | 10,707.34      | 8,910.00       | 50.47           | 50.45  | 94.76             | 122.24                 | 1,789.24        | 906.92           | 805.88             | 101.04            | 8.976       |                                                                                      |         |                            |  |
| 10,800.00                  | 8,835.00       | 10,807.34      | 8,910.00       | 52.06           | 52.06  | 94.77             | 123.34                 | 1,889.24        | 906.42           | 802.19             | 104.23            | 8.696       |                                                                                      |         |                            |  |
| 10,900.00                  | 8,835.00       | 10,907.34      | 8,910.00       | 53.68           | 53.69  | 94.77             | 124.44                 | 1,989.23        | 905.92           | 798.44             | 107.48            | 8.429       |                                                                                      |         |                            |  |
| 11,000.00                  | 8,835.00       | 11,007.35      | 8,910.00       | 55.32           | 55.36  | 94.77             | 125.54                 | 2,089.22        | 905.42           | 794.64             | 110.78            | 8.173       |                                                                                      |         |                            |  |
| 11,100.00                  | 8,835.00       | 11,107.35      | 8,910.00       | 57.00           | 57.05  | 94.77             | 126.64                 | 2,189.21        | 904.91           | 790.78             | 114.13            | 7.929       |                                                                                      |         |                            |  |
| 11,200.00                  | 8,835.00       | 11,207.35      | 8,910.00       | 58.70           | 58.76  | 94.78             | 127.74                 | 2,289.21        | 904.41           | 786.88             | 117.53            | 7.695       |                                                                                      |         |                            |  |
| 11,300.00                  | 8,835.00       | 11,307.35      | 8,910.00       | 60.41           | 60.49  | 94.78             | 128.84                 | 2,389.20        | 903.91           | 782.94             | 120.97            | 7.472       |                                                                                      |         |                            |  |
| 11,400.00                  | 8,835.00       | 11,407.35      | 8,910.00       | 62.15           | 62.24  | 94.78             | 129.94                 | 2,489.19        | 903.41           | 778.96             | 124.45            | 7.259       |                                                                                      |         |                            |  |
| 11,500.00                  | 8,835.00       | 11,507.35      | 8,910.00       | 63.91           | 64.01  | 94.78             | 131.03                 | 2,589.18        | 902.91           | 774.94             | 127.96            | 7.056       |                                                                                      |         |                            |  |
| 11,600.00                  | 8,835.00       | 11,607.35      | 8,910.00       | 65.69           | 65.79  | 94.79             | 132.13                 | 2,689.18        | 902.40           | 770.90             | 131.51            | 6.862       |                                                                                      |         |                            |  |
| 11,700.00                  | 8,835.00       | 11,707.35      | 8,910.00       | 67.47           | 67.59  | 94.79             | 133.23                 | 2,789.17        | 901.90           | 766.82             | 135.09            | 6.677       |                                                                                      |         |                            |  |
| 11,800.00                  | 8,835.00       | 11,807.36      | 8,910.00       | 69.28           | 69.41  | 94.79             | 134.33                 | 2,889.16        | 901.40           | 762.71             | 138.69            | 6.499       |                                                                                      |         |                            |  |
| 11,900.00                  | 8,835.00       | 11,907.36      | 8,910.00       | 71.09           | 71.23  | 94.79             | 135.43                 | 2,989.16        | 900.90           | 758.58             | 142.32            | 6.330       |                                                                                      |         |                            |  |
| 12,000.00                  | 8,835.00       | 12,007.36      | 8,910.00       | 72.92           | 73.07  | 94.80             | 136.53                 | 3,089.15        | 900.40           | 754.42             | 145.98            | 6.168       |                                                                                      |         |                            |  |
| 12,100.00                  | 8,835.00       | 12,107.36      | 8,910.00       | 74.76           | 74.92  | 94.80             | 137.63                 | 3,189.14        | 899.89           | 750.24             | 149.65            | 6.013       |                                                                                      |         |                            |  |
| 12,200.00                  | 8,835.00       | 12,207.36      | 8,910.00       | 76.61           | 76.77  | 94.80             | 138.73                 | 3,289.13        | 899.39           | 746.04             | 153.35            | 5.865       |                                                                                      |         |                            |  |
| 12,300.00                  | 8,835.00       | 12,307.36      | 8,910.00       | 78.47           | 78.64  | 94.81             | 139.83                 | 3,389.13        | 898.89           | 741.83             | 157.06            | 5.723       |                                                                                      |         |                            |  |
| 12,400.00                  | 8,835.00       | 12,407.36      | 8,910.00       | 80.34           | 80.52  | 94.81             | 140.93                 | 3,489.12        | 898.39           | 737.59             | 160.80            | 5.587       |                                                                                      |         |                            |  |
| 12,500.00                  | 8,835.00       | 12,507.36      | 8,910.00       | 82.22           | 82.40  | 94.81             | 142.03                 | 3,589.11        | 897.89           | 733.34             | 164.55            | 5.457       |                                                                                      |         |                            |  |
| 12,600.00                  | 8,835.00       | 12,607.37      | 8,910.00       | 84.11           | 84.29  | 94.81             | 143.13                 | 3,689.10        | 897.38           | 729.07             | 168.31            | 5.332       |                                                                                      |         |                            |  |
| 12,700.00                  | 8,835.00       | 12,707.37      | 8,910.00       | 86.00           | 86.19  | 94.82             | 144.23                 | 3,789.10        | 896.88           | 724.79             | 172.09            | 5.212       |                                                                                      |         |                            |  |
| 12,800.00                  | 8,835.00       | 12,807.37      | 8,910.00       | 87.90           | 88.10  | 94.82             | 145.33                 | 3,889.09        | 896.38           | 720.50             | 175.88            | 5.096       |                                                                                      |         |                            |  |
| 12,900.00                  | 8,835.00       | 12,907.37      | 8,910.00       | 89.81           | 90.01  | 94.82             | 146.43                 | 3,989.08        | 895.88           | 716.19             | 179.69            | 4.986 Alert |                                                                                      |         |                            |  |
| 13,000.00                  | 8,835.00       | 13,007.37      | 8,910.00       | 91.72           | 91.93  | 94.82             | 147.53                 | 4,089.08        | 895.38           | 711.87             | 183.51            | 4.879 Alert |                                                                                      |         |                            |  |
| 13,100.00                  | 8,835.00       | 13,107.37      | 8,910.00       | 93.64           | 93.85  | 94.83             | 148.63                 | 4,189.07        | 894.87           | 707.54             | 187.33            | 4.777 Alert |                                                                                      |         |                            |  |
| 13,200.00                  | 8,835.00       | 13,207.37      | 8,910.00       | 95.56           | 95.78  | 94.83             | 149.73                 | 4,289.06        | 894.37           | 703.20             | 191.17            | 4.678 Alert |                                                                                      |         |                            |  |
| 13,300.00                  | 8,835.00       | 13,307.37      | 8,910.00       | 97.49           | 97.71  | 94.83             | 150.83                 | 4,389.05        | 893.87           | 698.85             | 195.02            | 4.583 Alert |                                                                                      |         |                            |  |
| 13,400.00                  | 8,835.00       | 13,407.38      | 8,910.00       | 99.42           | 99.64  | 94.84             | 151.93                 | 4,489.05        | 893.37           | 694.49             | 198.88            | 4.492 Alert |                                                                                      |         |                            |  |
| 13,500.00                  | 8,835.00       | 13,507.38      | 8,910.00       | 101.36          | 101.59 | 94.84             | 153.03                 | 4,589.04        | 892.86           | 690.12             | 202.74            | 4.404 Alert |                                                                                      |         |                            |  |
| 13,600.00                  | 8,835.00       | 13,607.38      | 8,910.00       | 103.30          | 103.53 | 94.84             | 154.13                 | 4,689.03        | 892.36           | 685.74             | 206.62            | 4.319 Alert |                                                                                      |         |                            |  |
| 13,700.00                  | 8,835.00       | 13,707.38      | 8,910.00       | 105.25          | 105.48 | 94.84             | 155.23                 | 4,789.02        | 891.86           | 681.36             | 210.50            | 4.237 Alert |                                                                                      |         |                            |  |
| 13,800.00                  | 8,835.00       | 13,807.38      | 8,910.00       | 107.20          | 107.43 | 94.85             | 156.33                 | 4,889.02        | 891.36           | 676.97             | 214.39            | 4.158 Alert |                                                                                      |         |                            |  |
| 13,900.00                  | 8,835.00       | 13,907.38      | 8,910.00       | 109.15          | 109.39 | 94.85             | 157.43                 | 4,989.01        | 890.86           | 672.57             | 218.29            | 4.081 Alert |                                                                                      |         |                            |  |
| 14,000.00                  | 8,835.00       | 14,007.38      | 8,910.00       | 111.10          | 111.35 | 94.85             | 158.53                 | 5,089.00        | 890.35           | 668.17             | 222.19            | 4.007 Alert |                                                                                      |         |                            |  |
| 14,100.00                  | 8,835.00       | 14,107.39      | 8,910.00       | 113.06          | 113.31 | 94.85             | 159.63                 | 5,188.99        | 889.85           | 663.76             | 226.10            | 3.936 Alert |                                                                                      |         |                            |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 334H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Site Error:</b> | 0.00 ft        |
|-----------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|----------------|
| Survey Program: 0-MWD+IFR1                                                                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Well Error:</b> | 0.50 ft        |
| Reference                                                                                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                           |                |
| Measured Depth (ft)                                                                                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor         | Warning        |
| 14,200.00                                                                                                 | 8,835.00            | 14,207.39           | 8,910.00            | 115.03          | 115.27      | 94.86                 | 160.73                            | 5,288.99   | 889.35               | 659.34                | 230.01                  | 3.867                     | Alert          |
| 14,300.00                                                                                                 | 8,835.00            | 14,307.39           | 8,910.00            | 116.99          | 117.24      | 94.86                 | 161.83                            | 5,388.98   | 888.85               | 654.92                | 233.93                  | 3.800                     | Alert          |
| 14,400.00                                                                                                 | 8,835.00            | 14,407.39           | 8,910.00            | 118.96          | 119.21      | 94.86                 | 162.93                            | 5,488.97   | 888.35               | 650.49                | 237.86                  | 3.735                     | Alert          |
| 14,500.00                                                                                                 | 8,835.00            | 14,507.39           | 8,910.00            | 120.93          | 121.19      | 94.87                 | 164.03                            | 5,588.97   | 887.84               | 646.06                | 241.79                  | 3.672                     | Alert          |
| 14,600.00                                                                                                 | 8,835.00            | 14,607.39           | 8,910.00            | 122.90          | 123.16      | 94.87                 | 165.13                            | 5,688.96   | 887.34               | 641.62                | 245.72                  | 3.611                     | Alert          |
| 14,700.00                                                                                                 | 8,835.00            | 14,707.39           | 8,910.00            | 124.88          | 125.14      | 94.87                 | 166.23                            | 5,788.95   | 886.84               | 637.18                | 249.66                  | 3.552                     | Alert          |
| 14,800.00                                                                                                 | 8,835.00            | 14,807.39           | 8,910.00            | 126.86          | 127.12      | 94.87                 | 167.33                            | 5,888.94   | 886.34               | 632.73                | 253.61                  | 3.495                     | Alert          |
| 14,900.00                                                                                                 | 8,835.00            | 14,907.40           | 8,910.00            | 128.84          | 129.10      | 94.88                 | 168.43                            | 5,988.94   | 885.84               | 628.28                | 257.56                  | 3.439                     | Alert          |
| 15,000.00                                                                                                 | 8,835.00            | 15,007.40           | 8,910.00            | 130.82          | 131.08      | 94.88                 | 169.53                            | 6,088.93   | 885.33               | 623.82                | 261.51                  | 3.385                     | Alert          |
| 15,100.00                                                                                                 | 8,835.00            | 15,107.40           | 8,910.00            | 132.80          | 133.07      | 94.88                 | 170.63                            | 6,188.92   | 884.83               | 619.37                | 265.47                  | 3.333                     | Alert          |
| 15,200.00                                                                                                 | 8,835.00            | 15,207.40           | 8,910.00            | 134.79          | 135.06      | 94.88                 | 171.72                            | 6,288.91   | 884.33               | 614.90                | 269.43                  | 3.282                     | Alert          |
| 15,300.00                                                                                                 | 8,835.00            | 15,307.40           | 8,910.00            | 136.78          | 137.04      | 94.89                 | 172.82                            | 6,388.91   | 883.83               | 610.44                | 273.39                  | 3.233                     | Alert          |
| 15,400.00                                                                                                 | 8,835.00            | 15,407.40           | 8,910.00            | 138.76          | 139.04      | 94.89                 | 173.92                            | 6,488.90   | 883.33               | 605.97                | 277.36                  | 3.185                     | Alert          |
| 15,500.00                                                                                                 | 8,835.00            | 15,507.40           | 8,910.00            | 140.76          | 141.03      | 94.89                 | 175.02                            | 6,588.89   | 882.82               | 601.50                | 281.33                  | 3.138                     | Alert          |
| 15,600.00                                                                                                 | 8,835.00            | 15,607.40           | 8,910.00            | 142.75          | 143.02      | 94.90                 | 176.12                            | 6,688.88   | 882.32               | 597.02                | 285.30                  | 3.093                     | Alert          |
| 15,700.00                                                                                                 | 8,835.00            | 15,707.41           | 8,910.00            | 144.74          | 145.02      | 94.90                 | 177.22                            | 6,788.88   | 881.82               | 592.54                | 289.28                  | 3.048                     | Alert          |
| 15,800.00                                                                                                 | 8,835.00            | 15,807.41           | 8,910.00            | 146.74          | 147.01      | 94.90                 | 178.32                            | 6,888.87   | 881.32               | 588.06                | 293.26                  | 3.005                     | Alert          |
| 15,900.00                                                                                                 | 8,835.00            | 15,907.41           | 8,910.00            | 148.73          | 149.01      | 94.90                 | 179.42                            | 6,988.86   | 880.82               | 583.58                | 297.24                  | 2.963                     | Alert          |
| 16,000.00                                                                                                 | 8,835.00            | 16,007.41           | 8,910.00            | 150.73          | 151.01      | 94.91                 | 180.52                            | 7,088.86   | 880.31               | 579.09                | 301.22                  | 2.922                     | Alert          |
| 16,100.00                                                                                                 | 8,835.00            | 16,107.41           | 8,910.00            | 152.73          | 153.01      | 94.91                 | 181.62                            | 7,188.85   | 879.81               | 574.60                | 305.21                  | 2.883                     | Alert          |
| 16,200.00                                                                                                 | 8,835.00            | 16,207.41           | 8,910.00            | 154.73          | 155.01      | 94.91                 | 182.72                            | 7,288.84   | 879.31               | 570.11                | 309.20                  | 2.844                     | Alert          |
| 16,300.00                                                                                                 | 8,835.00            | 16,307.41           | 8,910.00            | 156.73          | 157.01      | 94.92                 | 183.82                            | 7,388.83   | 878.81               | 565.62                | 313.19                  | 2.806                     | Alert          |
| 16,400.00                                                                                                 | 8,835.00            | 16,407.41           | 8,910.00            | 158.74          | 159.02      | 94.92                 | 184.92                            | 7,488.83   | 878.31               | 561.13                | 317.18                  | 2.769                     | Alert          |
| 16,500.00                                                                                                 | 8,835.00            | 16,507.42           | 8,910.00            | 160.74          | 161.02      | 94.92                 | 186.02                            | 7,588.82   | 877.80               | 556.63                | 321.18                  | 2.733                     | Alert          |
| 16,600.00                                                                                                 | 8,835.00            | 16,607.42           | 8,910.00            | 162.74          | 163.03      | 94.92                 | 187.12                            | 7,688.81   | 877.30               | 552.13                | 325.17                  | 2.698                     | Alert          |
| 16,700.00                                                                                                 | 8,835.00            | 16,707.42           | 8,910.00            | 164.75          | 165.03      | 94.93                 | 188.22                            | 7,788.80   | 876.80               | 547.63                | 329.17                  | 2.664                     | Alert          |
| 16,800.00                                                                                                 | 8,835.00            | 16,807.42           | 8,910.00            | 166.76          | 167.04      | 94.93                 | 189.32                            | 7,888.80   | 876.30               | 543.12                | 333.17                  | 2.630                     | Alert          |
| 16,900.00                                                                                                 | 8,835.00            | 16,907.42           | 8,910.00            | 168.77          | 169.05      | 94.93                 | 190.42                            | 7,988.79   | 875.80               | 538.62                | 337.18                  | 2.597                     | Alert          |
| 17,000.00                                                                                                 | 8,835.00            | 17,007.42           | 8,910.00            | 170.77          | 171.06      | 94.94                 | 191.52                            | 8,088.78   | 875.29               | 534.11                | 341.18                  | 2.565                     | Alert          |
| 17,100.00                                                                                                 | 8,835.00            | 17,107.42           | 8,910.00            | 172.78          | 173.07      | 94.94                 | 192.62                            | 8,188.78   | 874.79               | 529.60                | 345.19                  | 2.534                     | Alert          |
| 17,200.00                                                                                                 | 8,835.00            | 17,207.42           | 8,910.00            | 174.79          | 175.08      | 94.94                 | 193.72                            | 8,288.77   | 874.29               | 525.09                | 349.20                  | 2.504                     | Alert          |
| 17,300.00                                                                                                 | 8,835.00            | 17,307.43           | 8,910.00            | 176.81          | 177.09      | 94.94                 | 194.82                            | 8,388.76   | 873.79               | 520.58                | 353.21                  | 2.474                     | Minor Risk     |
| 17,400.00                                                                                                 | 8,835.00            | 17,407.43           | 8,910.00            | 178.82          | 179.11      | 94.95                 | 195.92                            | 8,488.75   | 873.29               | 516.07                | 357.22                  | 2.445                     | Minor Risk     |
| 17,500.00                                                                                                 | 8,835.00            | 17,507.43           | 8,910.00            | 180.83          | 181.12      | 94.95                 | 197.02                            | 8,588.75   | 872.78               | 511.55                | 361.23                  | 2.416                     | Minor Risk     |
| 17,600.00                                                                                                 | 8,835.00            | 17,607.43           | 8,910.00            | 182.84          | 183.13      | 94.95                 | 198.12                            | 8,688.74   | 872.28               | 507.04                | 365.25                  | 2.388                     | Minor Risk     |
| 17,700.00                                                                                                 | 8,835.00            | 17,707.43           | 8,910.00            | 184.86          | 185.15      | 94.96                 | 199.22                            | 8,788.73   | 871.78               | 502.52                | 369.26                  | 2.361                     | Minor Risk     |
| 17,800.00                                                                                                 | 8,835.00            | 17,807.43           | 8,910.00            | 186.87          | 187.16      | 94.96                 | 200.32                            | 8,888.72   | 871.28               | 498.00                | 373.28                  | 2.334                     | Minor Risk     |
| 17,900.00                                                                                                 | 8,835.00            | 17,907.43           | 8,910.00            | 188.89          | 189.18      | 94.96                 | 201.42                            | 8,988.72   | 870.78               | 493.48                | 377.30                  | 2.308                     | Minor Risk     |
| 18,000.00                                                                                                 | 8,835.00            | 18,007.43           | 8,910.00            | 190.91          | 191.20      | 94.96                 | 202.52                            | 9,088.71   | 870.27               | 488.96                | 381.32                  | 2.282                     | Minor Risk     |
| 18,100.00                                                                                                 | 8,835.00            | 18,107.44           | 8,910.00            | 192.92          | 193.21      | 94.97                 | 203.62                            | 9,188.70   | 869.77               | 484.44                | 385.34                  | 2.257                     | Minor Risk     |
| 18,200.00                                                                                                 | 8,835.00            | 18,207.44           | 8,910.00            | 194.94          | 195.23      | 94.97                 | 204.72                            | 9,288.69   | 869.27               | 479.91                | 389.36                  | 2.233                     | Minor Risk     |
| 18,300.00                                                                                                 | 8,835.00            | 18,307.44           | 8,910.00            | 196.96          | 197.25      | 94.97                 | 205.82                            | 9,388.69   | 868.77               | 475.39                | 393.38                  | 2.208                     | Minor Risk     |
| 18,400.00                                                                                                 | 8,835.00            | 18,407.44           | 8,910.00            | 198.98          | 199.27      | 94.98                 | 206.92                            | 9,488.68   | 868.27               | 470.86                | 397.41                  | 2.185                     | Minor Risk     |
| 18,500.00                                                                                                 | 8,835.00            | 18,507.44           | 8,910.00            | 201.00          | 201.29      | 94.98                 | 208.02                            | 9,588.67   | 867.77               | 466.33                | 401.43                  | 2.162                     | Minor Risk     |
| 18,600.00                                                                                                 | 8,835.00            | 18,607.44           | 8,910.00            | 203.02          | 203.31      | 94.98                 | 209.12                            | 9,688.67   | 867.26               | 461.81                | 405.46                  | 2.139                     | Minor Risk     |
| 18,700.00                                                                                                 | 8,835.00            | 18,707.44           | 8,910.00            | 205.04          | 205.33      | 94.98                 | 210.22                            | 9,788.66   | 866.76               | 457.28                | 409.48                  | 2.117                     | Minor Risk     |
| 18,800.00                                                                                                 | 8,835.00            | 18,807.44           | 8,910.00            | 207.06          | 207.35      | 94.99                 | 211.32                            | 9,888.65   | 866.26               | 452.75                | 413.51                  | 2.095                     | Minor Risk     |
| 18,900.00                                                                                                 | 8,835.00            | 18,907.45           | 8,910.00            | 209.08          | 209.37      | 94.99                 | 212.41                            | 9,988.64   | 865.76               | 448.22                | 417.54                  | 2.073                     | Minor Risk     |
| 19,000.00                                                                                                 | 8,835.00            | 19,007.45           | 8,910.00            | 211.10          | 211.39      | 94.99                 | 213.51                            | 10,088.64  | 865.26               | 443.68                | 421.57                  | 2.052                     | Minor Risk     |
| 19,100.00                                                                                                 | 8,835.00            | 19,107.45           | 8,910.00            | 213.12          | 213.41      | 95.00                 | 214.61                            | 10,188.63  | 864.75               | 439.15                | 425.60                  | 2.032                     | Minor Risk     |
| 19,200.00                                                                                                 | 8,835.00            | 19,207.45           | 8,910.00            | 215.15          | 215.44      | 95.00                 | 215.71                            | 10,288.62  | 864.25               | 434.62                | 429.63                  | 2.012                     | Minor Risk     |
| 19,308.27                                                                                                 | 8,835.00            | 19,300.82           | 8,910.00            | 217.34          | 217.33      | 95.00                 | 216.90                            | 10,396.88  | 863.71               | 430.01                | 433.70                  | 1.991                     | Minor Risk, SF |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 431-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                         | 0.00                | 15.22               | 15.22               | 0.50            | 0.50        | -177.19               | -1,704.21                         | -83.63     | 1,706.27             |                       |                         |                   |                    |         |
| 100.00                       | 100.00              | 113.41              | 113.41              | 0.52            | 0.54        | -177.20               | -1,704.29                         | -83.49     | 1,706.33             | 1,705.28              | 1.05                    | 1,620.109         |                    |         |
| 200.00                       | 200.00              | 211.60              | 211.60              | 0.70            | 0.61        | -177.21               | -1,704.48                         | -83.15     | 1,706.51             | 1,705.19              | 1.32                    | 1,295.968         |                    |         |
| 300.00                       | 300.00              | 309.79              | 309.79              | 0.99            | 0.72        | -177.23               | -1,704.78                         | -82.59     | 1,706.79             | 1,705.08              | 1.71                    | 997.428           |                    |         |
| 400.00                       | 400.00              | 407.98              | 407.97              | 1.31            | 0.85        | -177.25               | -1,705.20                         | -81.83     | 1,707.18             | 1,705.02              | 2.16                    | 790.128           |                    |         |
| 500.00                       | 500.00              | 501.77              | 501.76              | 1.65            | 1.10        | -177.28               | -1,705.80                         | -80.99     | 1,707.77             | 1,705.02              | 2.75                    | 621.508           |                    |         |
| 600.00                       | 600.00              | 605.09              | 605.07              | 1.99            | 1.44        | -177.31               | -1,706.63                         | -80.21     | 1,708.55             | 1,705.12              | 3.43                    | 497.854           |                    |         |
| 700.00                       | 700.00              | 705.50              | 705.47              | 2.34            | 1.78        | -177.34               | -1,707.26                         | -79.46     | 1,709.14             | 1,705.01              | 4.12                    | 414.584           |                    |         |
| 800.00                       | 800.00              | 806.74              | 806.72              | 2.69            | 2.14        | -177.36               | -1,707.81                         | -78.88     | 1,709.65             | 1,704.83              | 4.82                    | 354.388           |                    |         |
| 900.00                       | 900.00              | 902.03              | 901.99              | 3.04            | 2.47        | -177.37               | -1,708.54                         | -78.52     | 1,710.40             | 1,704.89              | 5.51                    | 310.472           |                    |         |
| 1,000.00                     | 1,000.00            | 1,016.52            | 1,016.48            | 3.40            | 2.87        | -177.40               | -1,708.93                         | -77.68     | 1,710.70             | 1,704.44              | 6.26                    | 273.172           |                    |         |
| 1,100.00                     | 1,100.00            | 1,119.71            | 1,119.67            | 3.75            | 3.23        | -177.42               | -1,708.73                         | -77.03     | 1,710.47             | 1,703.50              | 6.98                    | 245.204           |                    |         |
| 1,200.00                     | 1,200.00            | 1,221.64            | 1,221.60            | 4.11            | 3.58        | -177.45               | -1,708.51                         | -76.12     | 1,710.21             | 1,702.53              | 7.69                    | 222.468           |                    |         |
| 1,300.00                     | 1,300.00            | 1,329.58            | 1,329.53            | 4.46            | 3.96        | -177.50               | -1,707.96                         | -74.67     | 1,709.65             | 1,701.23              | 8.42                    | 203.033           |                    |         |
| 1,400.00                     | 1,400.00            | 1,431.04            | 1,430.98            | 4.82            | 4.31        | -177.54               | -1,707.12                         | -73.47     | 1,708.77             | 1,699.64              | 9.13                    | 187.141           |                    |         |
| 1,500.00                     | 1,500.00            | 1,525.19            | 1,525.11            | 5.18            | 4.64        | -177.58               | -1,706.49                         | -72.16     | 1,708.04             | 1,698.22              | 9.82                    | 173.946           |                    |         |
| 1,600.00                     | 1,600.00            | 1,630.56            | 1,630.47            | 5.53            | 5.02        | -177.62               | -1,705.78                         | -70.92     | 1,707.32             | 1,696.77              | 10.55                   | 161.872           |                    |         |
| 1,700.00                     | 1,700.00            | 1,726.14            | 1,726.05            | 5.89            | 5.35        | -177.65               | -1,705.17                         | -69.88     | 1,706.63             | 1,695.39              | 11.24                   | 151.810           |                    |         |
| 1,800.00                     | 1,800.00            | 1,829.92            | 1,829.81            | 6.25            | 5.72        | -177.70               | -1,704.43                         | -68.48     | 1,705.87             | 1,693.90              | 11.97                   | 142.551           |                    |         |
| 1,900.00                     | 1,900.00            | 1,928.53            | 1,928.41            | 6.61            | 6.07        | -177.74               | -1,703.71                         | -67.10     | 1,705.08             | 1,692.40              | 12.67                   | 134.532           |                    |         |
| 2,000.00                     | 2,000.00            | 2,033.08            | 2,032.95            | 6.96            | 6.44        | -177.79               | -1,702.93                         | -65.73     | 1,704.29             | 1,690.88              | 13.40                   | 127.173           |                    |         |
| 2,100.00                     | 2,099.99            | 2,145.42            | 2,145.28            | 7.32            | 6.83        | -165.04               | -1,701.33                         | -65.14     | 1,703.68             | 1,689.53              | 14.15                   | 120.414           |                    |         |
| 2,104.93                     | 2,104.93            | 2,150.71            | 2,150.57            | 7.34            | 6.85        | -165.04               | -1,701.23                         | -65.13     | 1,703.67             | 1,689.49              | 14.18                   | 120.110 CC        |                    |         |
| 2,200.00                     | 2,199.96            | 2,245.86            | 2,245.70            | 7.68            | 7.18        | -165.06               | -1,699.47                         | -65.17     | 1,704.36             | 1,689.51              | 14.85                   | 114.764           |                    |         |
| 2,300.00                     | 2,299.86            | 2,344.28            | 2,344.10            | 8.04            | 7.51        | -165.07               | -1,697.79                         | -65.46     | 1,706.88             | 1,691.34              | 15.55                   | 109.795           |                    |         |
| 2,400.00                     | 2,399.68            | 2,444.31            | 2,444.12            | 8.39            | 7.86        | -165.10               | -1,696.08                         | -65.81     | 1,711.09             | 1,694.84              | 16.25                   | 105.313           |                    |         |
| 2,500.00                     | 2,499.37            | 2,542.06            | 2,541.85            | 8.75            | 8.20        | -165.14               | -1,694.46                         | -66.03     | 1,717.03             | 1,700.09              | 16.94                   | 101.340           |                    |         |
| 2,600.00                     | 2,598.90            | 2,636.09            | 2,635.88            | 9.11            | 8.52        | -165.20               | -1,693.11                         | -66.00     | 1,724.87             | 1,707.24              | 17.63                   | 97.838            |                    |         |
| 2,700.00                     | 2,698.26            | 2,734.75            | 2,734.53            | 9.46            | 8.87        | -165.28               | -1,691.98                         | -65.57     | 1,734.66             | 1,716.33              | 18.33                   | 94.618            |                    |         |
| 2,800.00                     | 2,797.40            | 2,834.20            | 2,833.97            | 9.82            | 9.22        | -165.35               | -1,690.76                         | -65.84     | 1,746.09             | 1,727.05              | 19.04                   | 91.718            |                    |         |
| 2,900.00                     | 2,896.30            | 2,941.08            | 2,940.84            | 10.18           | 9.59        | -165.44               | -1,689.44                         | -66.03     | 1,759.20             | 1,739.43              | 19.77                   | 88.996            |                    |         |
| 3,000.00                     | 2,994.93            | 3,085.30            | 3,084.98            | 10.54           | 10.09       | -165.58               | -1,684.73                         | -66.77     | 1,771.82             | 1,751.20              | 20.62                   | 85.915            |                    |         |
| 3,100.00                     | 3,093.26            | 3,187.41            | 3,186.99            | 10.90           | 10.45       | -165.68               | -1,680.25                         | -67.04     | 1,785.16             | 1,763.82              | 21.34                   | 83.652            |                    |         |
| 3,195.07                     | 3,186.42            | 3,283.50            | 3,282.99            | 11.24           | 10.79       | -165.78               | -1,675.99                         | -67.37     | 1,799.36             | 1,777.34              | 22.02                   | 81.714            |                    |         |
| 3,200.00                     | 3,191.25            | 3,288.52            | 3,288.00            | 11.26           | 10.81       | -165.79               | -1,675.76                         | -67.39     | 1,800.13             | 1,778.08              | 22.06                   | 81.616            |                    |         |
| 3,300.00                     | 3,289.08            | 3,380.02            | 3,379.42            | 11.62           | 11.13       | -165.93               | -1,671.77                         | -67.66     | 1,815.96             | 1,793.22              | 22.74                   | 79.857            |                    |         |
| 3,400.00                     | 3,386.91            | 3,608.43            | 3,607.07            | 11.98           | 11.94       | -166.16               | -1,654.52                         | -71.51     | 1,828.82             | 1,804.99              | 23.84                   | 76.727            |                    |         |
| 3,500.00                     | 3,484.74            | 3,885.67            | 3,880.87            | 12.35           | 12.94       | -166.38               | -1,612.09                         | -77.32     | 1,835.04             | 1,810.11              | 24.92                   | 73.627            |                    |         |
| 3,600.00                     | 3,582.58            | 4,000.18            | 3,992.71            | 12.72           | 13.37       | -166.39               | -1,588.07                         | -82.42     | 1,834.27             | 1,808.60              | 25.67                   | 71.460            |                    |         |
| 3,700.00                     | 3,680.41            | 4,092.27            | 4,082.46            | 13.09           | 13.72       | -166.36               | -1,568.09                         | -87.46     | 1,832.77             | 1,806.39              | 26.38                   | 69.467            |                    |         |
| 3,760.57                     | 3,739.67            | 4,134.69            | 4,123.89            | 13.31           | 13.88       | -166.35               | -1,559.32                         | -89.90     | 1,832.47             | 1,805.68              | 26.80                   | 68.386            |                    |         |
| 3,800.00                     | 3,778.24            | 4,171.63            | 4,160.03            | 13.46           | 14.02       | -166.33               | -1,551.94                         | -92.03     | 1,832.56             | 1,805.48              | 27.08                   | 67.673            |                    |         |
| 3,900.00                     | 3,876.08            | 4,295.98            | 4,281.48            | 13.83           | 14.51       | -166.32               | -1,525.95                         | -98.00     | 1,831.80             | 1,803.94              | 27.85                   | 65.770            |                    |         |
| 4,000.00                     | 3,973.91            | 4,386.44            | 4,369.78            | 14.21           | 14.86       | -166.33               | -1,506.69                         | -101.87    | 1,830.68             | 1,802.11              | 28.57                   | 64.073            |                    |         |
| 4,100.00                     | 4,071.74            | 4,481.88            | 4,463.12            | 14.58           | 15.24       | -166.34               | -1,487.21                         | -106.05    | 1,830.45             | 1,801.15              | 29.30                   | 62.469            |                    |         |
| 4,200.00                     | 4,169.57            | 4,597.27            | 4,575.83            | 14.96           | 15.70       | -166.38               | -1,462.79                         | -110.01    | 1,829.43             | 1,799.36              | 30.07                   | 60.847            |                    |         |
| 4,300.00                     | 4,267.41            | 4,686.91            | 4,663.38            | 15.33           | 16.06       | -166.43               | -1,443.73                         | -112.45    | 1,828.32             | 1,797.53              | 30.79                   | 59.379            |                    |         |
| 4,382.52                     | 4,348.13            | 4,756.69            | 4,731.66            | 15.64           | 16.34       | -166.47               | -1,429.43                         | -114.33    | 1,828.05             | 1,796.67              | 31.38                   | 58.252            |                    |         |
| 4,400.00                     | 4,365.24            | 4,771.80            | 4,746.45            | 15.71           | 16.40       | -166.48               | -1,426.39                         | -114.76    | 1,828.06             | 1,796.55              | 31.51                   | 58.020            |                    |         |
| 4,500.00                     | 4,463.07            | 4,882.93            | 4,855.29            | 16.09           | 16.85       | -166.54               | -1,404.15                         | -117.86    | 1,828.26             | 1,795.99              | 32.27                   | 56.654            |                    |         |
| 4,600.00                     | 4,560.90            | 4,981.72            | 4,951.90            | 16.47           | 17.25       | -166.64               | -1,383.54                         | -119.17    | 1,827.55             | 1,794.54              | 33.01                   | 55.357            |                    |         |
| 4,643.91                     | 4,603.86            | 5,018.19            | 4,987.60            | 16.63           | 17.40       | -166.68               | -1,376.10                         | -119.47    | 1,827.45             | 1,794.12              | 33.33                   | 54.832            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 431-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 4,700.00                     | 4,658.74            | 5,059.66            | 5,028.25            | 16.85           | 17.56       | -166.73               | -1,367.90                         | -119.86    | 1,827.68             | 1,793.96              | 33.72                   | 54.202            |                    |         |
| 4,800.00                     | 4,756.57            | 5,137.21            | 5,104.41            | 17.23           | 17.88       | -166.81               | -1,353.39                         | -120.89    | 1,829.15             | 1,794.73              | 34.42                   | 53.141            |                    |         |
| 4,900.00                     | 4,854.40            | 5,222.94            | 5,188.78            | 17.61           | 18.22       | -166.89               | -1,338.18                         | -122.17    | 1,831.63             | 1,796.49              | 35.14                   | 52.130            |                    |         |
| 5,000.00                     | 4,952.23            | 5,321.16            | 5,285.50            | 17.99           | 18.62       | -166.97               | -1,321.21                         | -124.13    | 1,834.59             | 1,798.71              | 35.88                   | 51.132            |                    |         |
| 5,100.00                     | 5,050.07            | 5,419.39            | 5,382.19            | 18.37           | 19.01       | -167.06               | -1,303.96                         | -125.88    | 1,837.27             | 1,800.64              | 36.62                   | 50.167            |                    |         |
| 5,200.00                     | 5,147.90            | 5,495.55            | 5,457.29            | 18.75           | 19.32       | -167.13               | -1,291.39                         | -127.18    | 1,840.99             | 1,803.68              | 37.31                   | 49.338            |                    |         |
| 5,300.00                     | 5,245.73            | 5,627.90            | 5,587.87            | 19.14           | 19.85       | -167.29               | -1,269.80                         | -127.97    | 1,845.12             | 1,806.98              | 38.14                   | 48.379            |                    |         |
| 5,400.00                     | 5,343.56            | 5,743.00            | 5,700.91            | 19.52           | 20.32       | -167.49               | -1,248.19                         | -126.92    | 1,846.48             | 1,807.55              | 38.92                   | 47.441            |                    |         |
| 5,500.00                     | 5,441.40            | 5,846.52            | 5,802.66            | 19.90           | 20.75       | -167.65               | -1,229.14                         | -126.58    | 1,848.34             | 1,808.66              | 39.68                   | 46.582            |                    |         |
| 5,600.00                     | 5,539.23            | 5,977.09            | 5,930.65            | 20.29           | 21.29       | -167.78               | -1,203.41                         | -128.25    | 1,848.81             | 1,808.31              | 40.49                   | 45.658            |                    |         |
| 5,605.50                     | 5,544.61            | 5,980.79            | 5,934.27            | 20.31           | 21.30       | -167.78               | -1,202.66                         | -128.36    | 1,848.80             | 1,808.27              | 40.53                   | 45.614            |                    |         |
| 5,700.00                     | 5,637.06            | 6,044.42            | 5,996.66            | 20.67           | 21.57       | -167.81               | -1,190.32                         | -130.51    | 1,849.59             | 1,808.41              | 41.18                   | 44.912            |                    |         |
| 5,800.00                     | 5,734.90            | 6,143.00            | 6,093.47            | 21.05           | 21.98       | -167.82               | -1,172.23                         | -134.70    | 1,851.47             | 1,809.54              | 41.93                   | 44.152            |                    |         |
| 5,900.00                     | 5,832.73            | 6,283.81            | 6,231.43            | 21.44           | 22.57       | -167.83               | -1,144.72                         | -140.72    | 1,852.17             | 1,809.39              | 42.77                   | 43.303            |                    |         |
| 6,000.00                     | 5,930.56            | 6,396.04            | 6,340.97            | 21.83           | 23.05       | -167.82               | -1,120.90                         | -146.17    | 1,851.07             | 1,807.52              | 43.55                   | 42.501            |                    |         |
| 6,100.00                     | 6,028.39            | 6,497.45            | 6,439.95            | 22.21           | 23.49       | -167.82               | -1,099.38                         | -151.00    | 1,850.02             | 1,805.71              | 44.32                   | 41.746            |                    |         |
| 6,189.33                     | 6,115.78            | 6,564.67            | 6,505.60            | 22.56           | 23.77       | -167.84               | -1,085.15                         | -153.40    | 1,849.23             | 1,804.27              | 44.95                   | 41.135            |                    |         |
| 6,200.00                     | 6,126.23            | 6,570.64            | 6,511.44            | 22.60           | 23.80       | -167.84               | -1,083.95                         | -153.59    | 1,849.24             | 1,804.21              | 45.03                   | 41.070            |                    |         |
| 6,300.00                     | 6,224.06            | 6,628.00            | 6,567.76            | 22.98           | 24.04       | -167.87               | -1,073.18                         | -155.19    | 1,850.69             | 1,805.00              | 45.69                   | 40.503            |                    |         |
| 6,400.00                     | 6,321.89            | 6,710.03            | 6,648.56            | 23.37           | 24.38       | -167.95               | -1,059.10                         | -156.51    | 1,853.79             | 1,807.39              | 46.40                   | 39.950            |                    |         |
| 6,500.00                     | 6,419.72            | 6,860.18            | 6,796.31            | 23.76           | 25.00       | -168.14               | -1,032.40                         | -157.09    | 1,856.48             | 1,809.21              | 47.27                   | 39.270            |                    |         |
| 6,572.22                     | 6,490.38            | 6,947.79            | 6,882.08            | 24.03           | 25.38       | -168.24               | -1,014.55                         | -157.83    | 1,856.32             | 1,808.47              | 47.85                   | 38.793            |                    |         |
| 6,600.00                     | 6,517.56            | 6,967.58            | 6,901.47            | 24.14           | 25.46       | -168.26               | -1,010.59                         | -157.95    | 1,856.38             | 1,808.34              | 48.05                   | 38.636            |                    |         |
| 6,700.00                     | 6,615.39            | 7,049.07            | 6,981.45            | 24.53           | 25.80       | -168.37               | -994.97                           | -158.28    | 1,857.49             | 1,808.72              | 48.77                   | 38.089            |                    |         |
| 6,800.00                     | 6,713.22            | 7,162.24            | 7,092.55            | 24.92           | 26.28       | -168.48               | -973.50                           | -159.77    | 1,858.83             | 1,809.27              | 49.55                   | 37.511            |                    |         |
| 6,900.00                     | 6,811.05            | 7,265.96            | 7,194.19            | 25.30           | 26.72       | -168.57               | -952.88                           | -161.53    | 1,859.21             | 1,808.89              | 50.32                   | 36.947            |                    |         |
| 7,000.00                     | 6,908.89            | 7,334.05            | 7,261.00            | 25.69           | 27.01       | -168.64               | -939.80                           | -162.58    | 1,860.40             | 1,809.39              | 51.01                   | 36.471            |                    |         |
| 7,100.00                     | 7,006.72            | 7,391.00            | 7,317.13            | 26.08           | 27.25       | -168.70               | -930.18                           | -163.25    | 1,863.82             | 1,812.17              | 51.65                   | 36.083            |                    |         |
| 7,200.00                     | 7,104.55            | 7,504.43            | 7,429.02            | 26.47           | 27.71       | -168.82               | -911.57                           | -164.45    | 1,867.75             | 1,815.30              | 52.45                   | 35.612            |                    |         |
| 7,216.87                     | 7,121.05            | 7,515.89            | 7,440.32            | 26.53           | 27.76       | -168.83               | -909.70                           | -164.58    | 1,868.42             | 1,815.86              | 52.56                   | 35.548            |                    |         |
| 7,300.00                     | 7,202.57            | 7,572.38            | 7,496.12            | 26.85           | 27.99       | -168.89               | -900.92                           | -165.29    | 1,871.56             | 1,818.45              | 53.11                   | 35.240            |                    |         |
| 7,400.00                     | 7,301.06            | 7,627.10            | 7,550.31            | 27.23           | 28.21       | -168.93               | -893.41                           | -166.16    | 1,874.84             | 1,821.14              | 53.70                   | 34.912            |                    |         |
| 7,500.00                     | 7,399.97            | 7,681.20            | 7,604.07            | 27.61           | 28.42       | -168.96               | -887.40                           | -167.32    | 1,878.09             | 1,823.83              | 54.26                   | 34.610            |                    |         |
| 7,600.00                     | 7,499.23            | 7,792.27            | 7,714.50            | 27.98           | 28.84       | -169.01               | -875.70                           | -168.90    | 1,879.38             | 1,824.33              | 55.04                   | 34.144            |                    |         |
| 7,700.00                     | 7,598.77            | 7,868.00            | 7,789.86            | 28.34           | 29.13       | -169.06               | -868.21                           | -168.55    | 1,878.80             | 1,823.13              | 55.67                   | 33.750            |                    |         |
| 7,800.00                     | 7,698.53            | 7,927.74            | 7,849.38            | 28.70           | 29.35       | -169.13               | -863.29                           | -167.32    | 1,877.36             | 1,821.16              | 56.20                   | 33.404            |                    |         |
| 7,900.00                     | 7,798.44            | 7,999.44            | 7,920.90            | 29.05           | 29.60       | -169.21               | -858.73                           | -165.12    | 1,875.24             | 1,818.47              | 56.77                   | 33.032            |                    |         |
| 8,000.00                     | 7,898.42            | 8,090.17            | 8,011.49            | 29.39           | 29.93       | -169.22               | -853.89                           | -164.75    | 1,871.55             | 1,814.12              | 57.43                   | 32.591            |                    |         |
| 8,013.58                     | 7,912.00            | 8,104.80            | 8,026.10            | 29.43           | 29.98       | 178.00                | -853.13                           | -164.88    | 1,870.86             | 1,813.34              | 57.53                   | 32.522            |                    |         |
| 8,100.00                     | 7,998.42            | 8,184.31            | 8,105.50            | 29.73           | 30.26       | 178.03                | -848.95                           | -165.98    | 1,866.30             | 1,808.20              | 58.09                   | 32.126            |                    |         |
| 8,200.00                     | 8,098.42            | 8,262.08            | 8,183.20            | 30.07           | 30.53       | 178.06                | -845.70                           | -166.86    | 1,862.06             | 1,803.39              | 58.67                   | 31.737            |                    |         |
| 8,300.00                     | 8,198.42            | 8,361.44            | 8,282.48            | 30.41           | 30.87       | 178.08                | -842.05                           | -167.89    | 1,858.35             | 1,798.99              | 59.36                   | 31.305            |                    |         |
| 8,363.62                     | 8,262.04            | 8,424.07            | 8,344.99            | 30.62           | 31.09       | 177.99                | -839.65                           | -164.92    | 1,856.02             | 1,796.22              | 59.80                   | 31.038            |                    |         |
| 8,400.00                     | 8,298.40            | 8,467.80            | 8,388.38            | 30.75           | 31.23       | 88.36                 | -837.84                           | -159.95    | 1,854.63             | 1,794.55              | 60.08                   | 30.868            |                    |         |
| 8,450.00                     | 8,348.10            | 8,513.78            | 8,433.18            | 30.91           | 31.38       | 88.41                 | -835.63                           | -149.97    | 1,852.44             | 1,792.05              | 60.39                   | 30.675            |                    |         |
| 8,500.00                     | 8,397.14            | 8,552.66            | 8,470.03            | 31.07           | 31.50       | 88.46                 | -833.88                           | -137.74    | 1,850.43             | 1,789.78              | 60.65                   | 30.508            |                    |         |
| 8,550.00                     | 8,445.15            | 8,590.82            | 8,505.03            | 31.23           | 31.61       | 88.49                 | -832.26                           | -122.65    | 1,848.59             | 1,787.68              | 60.91                   | 30.350            |                    |         |
| 8,600.00                     | 8,491.77            | 8,621.36            | 8,531.99            | 31.38           | 31.69       | 88.53                 | -831.17                           | -108.36    | 1,847.09             | 1,785.97              | 61.12                   | 30.221            |                    |         |
| 8,650.00                     | 8,536.65            | 8,644.92            | 8,552.04            | 31.52           | 31.75       | 88.56                 | -830.55                           | -96.01     | 1,846.07             | 1,784.79              | 61.28                   | 30.123            |                    |         |
| 8,700.00                     | 8,579.43            | 8,677.00            | 8,578.17            | 31.66           | 31.83       | 88.53                 | -830.29                           | -77.42     | 1,845.81             | 1,784.32              | 61.49                   | 30.017            |                    |         |
| 8,712.37                     | 8,589.66            | 8,677.00            | 8,578.17            | 31.70           | 31.83       | 88.54                 | -830.29                           | -77.42     | 1,845.77             | 1,784.27              | 61.50                   | 30.013            |                    |         |
| 8,750.00                     | 8,619.80            | 8,688.73            | 8,587.40            | 31.80           | 31.85       | 88.50                 | -830.36                           | -70.17     | 1,846.05             | 1,784.47              | 61.59                   | 29.975            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 431-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 8,800.00                     | 8,657.44            | 8,714.25            | 8,606.94            | 31.93           | 31.90       | 88.43                 | -830.73                           | -53.77     | 1,846.94             | 1,785.18              | 61.76                   | 29.904            |                    |         |
| 8,850.00                     | 8,692.08            | 8,772.66            | 8,648.60            | 32.06           | 32.00       | 88.39                 | -831.88                           | -12.90     | 1,848.12             | 1,785.96              | 62.16                   | 29.732            |                    |         |
| 8,900.00                     | 8,723.44            | 8,882.37            | 8,716.38            | 32.19           | 32.16       | 88.35                 | -830.98                           | 73.26      | 1,847.83             | 1,784.88              | 62.95                   | 29.355            |                    |         |
| 8,950.00                     | 8,751.29            | 8,922.05            | 8,738.13            | 32.34           | 32.22       | 88.42                 | -830.13                           | 106.44     | 1,847.02             | 1,783.69              | 63.32                   | 29.169            |                    |         |
| 9,000.00                     | 8,775.42            | 8,986.01            | 8,769.14            | 32.50           | 32.33       | 88.53                 | -828.48                           | 162.33     | 1,845.99             | 1,782.04              | 63.95                   | 28.868            |                    |         |
| 9,050.00                     | 8,795.64            | 9,050.00            | 8,797.12            | 32.67           | 32.54       | 88.72                 | -826.01                           | 222.54     | 1,844.35             | 1,779.69              | 64.66                   | 28.525            |                    |         |
| 9,100.00                     | 8,811.80            | 9,103.70            | 8,816.53            | 32.87           | 32.87       | 89.00                 | -823.73                           | 269.89     | 1,842.34             | 1,776.98              | 65.35                   | 28.191            |                    |         |
| 9,150.00                     | 8,823.77            | 9,143.40            | 8,829.42            | 33.10           | 33.20       | 89.29                 | -822.11                           | 307.41     | 1,840.51             | 1,774.53              | 65.97                   | 27.897            |                    |         |
| 9,200.00                     | 8,831.47            | 9,185.44            | 8,840.90            | 33.34           | 33.61       | 89.61                 | -820.57                           | 347.81     | 1,838.89             | 1,772.21              | 66.68                   | 27.579            |                    |         |
| 9,250.00                     | 8,834.84            | 9,243.45            | 8,853.83            | 33.60           | 34.24       | 90.06                 | -818.46                           | 404.32     | 1,837.33             | 1,769.70              | 67.64                   | 27.165            |                    |         |
| 9,263.62                     | 8,835.00            | 9,259.66            | 8,857.05            | 33.67           | 34.43       | 90.20                 | -817.79                           | 420.19     | 1,836.84             | 1,768.93              | 67.92                   | 27.046            |                    |         |
| 9,300.00                     | 8,835.00            | 9,316.09            | 8,866.57            | 33.88           | 35.13       | 90.50                 | -815.25                           | 475.75     | 1,835.48             | 1,766.60              | 68.88                   | 26.648            |                    |         |
| 9,400.00                     | 8,835.00            | 9,464.13            | 8,881.12            | 34.53           | 37.24       | 90.96                 | -804.39                           | 622.64     | 1,828.50             | 1,756.78              | 71.72                   | 25.494            |                    |         |
| 9,500.00                     | 8,835.00            | 9,542.56            | 8,886.55            | 35.30           | 38.49       | 91.14                 | -798.49                           | 700.66     | 1,821.71             | 1,747.95              | 73.76                   | 24.697            |                    |         |
| 9,600.00                     | 8,835.00            | 9,619.52            | 8,890.89            | 36.17           | 39.79       | 91.28                 | -793.83                           | 777.36     | 1,816.35             | 1,740.40              | 75.95                   | 23.916            |                    |         |
| 9,700.00                     | 8,835.00            | 9,695.63            | 8,893.97            | 37.13           | 41.15       | 91.38                 | -790.03                           | 853.31     | 1,812.08             | 1,733.81              | 78.26                   | 23.153            |                    |         |
| 9,800.00                     | 8,835.00            | 9,756.49            | 8,895.34            | 38.18           | 42.28       | 91.42                 | -788.17                           | 914.12     | 1,809.67             | 1,729.25              | 80.42                   | 22.504            |                    |         |
| 9,900.00                     | 8,835.00            | 9,840.09            | 8,896.17            | 39.31           | 43.91       | 91.45                 | -787.09                           | 997.71     | 1,808.96             | 1,725.81              | 83.15                   | 21.755            |                    |         |
| 10,000.00                    | 8,835.00            | 9,938.78            | 8,897.33            | 40.51           | 45.90       | 91.48                 | -786.15                           | 1,096.39   | 1,808.63             | 1,722.28              | 86.36                   | 20.944            |                    |         |
| 10,067.49                    | 8,835.00            | 9,999.98            | 8,898.31            | 41.36           | 47.18       | 91.51                 | -785.60                           | 1,157.58   | 1,808.47             | 1,719.98              | 88.49                   | 20.437            |                    |         |
| 10,100.00                    | 8,835.00            | 10,027.53           | 8,898.59            | 41.78           | 47.77       | 91.52                 | -785.47                           | 1,185.13   | 1,808.51             | 1,719.03              | 89.48                   | 20.211            |                    |         |
| 10,200.00                    | 8,835.00            | 10,158.81           | 8,898.97            | 43.10           | 50.63       | 91.54                 | -784.38                           | 1,316.40   | 1,808.40             | 1,714.67              | 93.73                   | 19.294            |                    |         |
| 10,300.00                    | 8,835.00            | 10,273.05           | 8,899.33            | 44.49           | 53.22       | 91.55                 | -781.66                           | 1,430.61   | 1,806.64             | 1,708.91              | 97.73                   | 18.486            |                    |         |
| 10,400.00                    | 8,835.00            | 10,385.08           | 8,900.19            | 45.92           | 55.82       | 91.58                 | -777.88                           | 1,542.57   | 1,803.86             | 1,702.07              | 101.79                  | 17.721            |                    |         |
| 10,500.00                    | 8,835.00            | 10,477.79           | 8,902.36            | 47.39           | 58.03       | 91.65                 | -774.72                           | 1,635.20   | 1,801.11             | 1,695.65              | 105.47                  | 17.078            |                    |         |
| 10,600.00                    | 8,835.00            | 10,572.24           | 8,904.21            | 48.91           | 60.31       | 91.71                 | -771.96                           | 1,729.59   | 1,798.84             | 1,689.58              | 109.26                  | 16.463            |                    |         |
| 10,700.00                    | 8,835.00            | 10,680.78           | 8,908.41            | 50.47           | 62.97       | 91.85                 | -768.63                           | 1,838.00   | 1,796.50             | 1,683.00              | 113.51                  | 15.827            |                    |         |
| 10,800.00                    | 8,835.00            | 10,789.19           | 8,913.27            | 52.06           | 65.67       | 92.01                 | -764.59                           | 1,946.23   | 1,793.51             | 1,675.70              | 117.81                  | 15.223            |                    |         |
| 10,900.00                    | 8,835.00            | 10,897.25           | 8,917.56            | 53.68           | 68.39       | 92.15                 | -760.20                           | 2,054.11   | 1,790.19             | 1,668.02              | 122.17                  | 14.653            |                    |         |
| 11,000.00                    | 8,835.00            | 10,988.65           | 8,920.27            | 55.32           | 70.71       | 92.24                 | -756.41                           | 2,145.38   | 1,786.76             | 1,660.62              | 126.14                  | 14.165            |                    |         |
| 11,100.00                    | 8,835.00            | 11,078.22           | 8,922.83            | 57.00           | 73.01       | 92.32                 | -753.27                           | 2,234.87   | 1,783.96             | 1,653.86              | 130.10                  | 13.713            |                    |         |
| 11,200.00                    | 8,835.00            | 11,147.07           | 8,925.31            | 58.70           | 74.79       | 92.41                 | -751.44                           | 2,303.65   | 1,782.13             | 1,648.62              | 133.51                  | 13.348            |                    |         |
| 11,233.78                    | 8,835.00            | 11,167.13           | 8,925.95            | 59.28           | 75.31       | 92.43                 | -751.22                           | 2,323.69   | 1,782.00             | 1,647.43              | 134.57                  | 13.242            |                    |         |
| 11,300.00                    | 8,835.00            | 11,210.10           | 8,927.14            | 60.41           | 76.42       | 92.46                 | -751.25                           | 2,366.65   | 1,782.49             | 1,645.74              | 136.75                  | 13.035            |                    |         |
| 11,400.00                    | 8,835.00            | 11,314.60           | 8,930.47            | 62.15           | 79.15       | 92.57                 | -751.85                           | 2,471.09   | 1,783.81             | 1,642.57              | 141.24                  | 12.630            |                    |         |
| 11,500.00                    | 8,835.00            | 11,418.19           | 8,935.08            | 63.91           | 81.88       | 92.72                 | -751.43                           | 2,574.58   | 1,784.19             | 1,638.45              | 145.74                  | 12.243            |                    |         |
| 11,600.00                    | 8,835.00            | 11,486.00           | 8,937.44            | 65.69           | 83.67       | 92.79                 | -752.40                           | 2,642.34   | 1,786.23             | 1,637.07              | 149.16                  | 11.975            |                    |         |
| 11,700.00                    | 8,835.00            | 11,586.79           | 8,939.35            | 67.47           | 86.34       | 92.85                 | -754.79                           | 2,743.08   | 1,789.29             | 1,635.66              | 153.63                  | 11.646            |                    |         |
| 11,800.00                    | 8,835.00            | 11,676.29           | 8,939.84            | 69.28           | 88.72       | 92.86                 | -756.87                           | 2,832.55   | 1,792.24             | 1,634.47              | 157.77                  | 11.360            |                    |         |
| 11,900.00                    | 8,835.00            | 11,818.72           | 8,940.02            | 71.09           | 92.54       | 92.86                 | -758.98                           | 2,974.96   | 1,794.35             | 1,630.75              | 163.60                  | 10.968            |                    |         |
| 12,000.00                    | 8,835.00            | 11,971.04           | 8,937.59            | 72.92           | 96.64       | 92.78                 | -757.25                           | 3,127.25   | 1,793.72             | 1,624.07              | 169.66                  | 10.573            |                    |         |
| 12,100.00                    | 8,835.00            | 12,051.10           | 8,936.10            | 74.76           | 98.80       | 92.74                 | -755.74                           | 3,207.28   | 1,792.32             | 1,618.70              | 173.62                  | 10.323            |                    |         |
| 12,200.00                    | 8,835.00            | 12,141.04           | 8,935.05            | 76.61           | 101.24      | 92.71                 | -754.65                           | 3,297.20   | 1,791.65             | 1,613.76              | 177.88                  | 10.072            |                    |         |
| 12,300.00                    | 8,835.00            | 12,245.23           | 8,933.44            | 78.47           | 104.07      | 92.65                 | -753.61                           | 3,401.37   | 1,791.18             | 1,608.59              | 182.58                  | 9.810             |                    |         |
| 12,400.00                    | 8,835.00            | 12,366.73           | 8,932.52            | 80.34           | 107.39      | 92.63                 | -751.22                           | 3,522.85   | 1,789.73             | 1,601.92              | 187.81                  | 9.530             |                    |         |
| 12,500.00                    | 8,835.00            | 12,456.10           | 8,933.51            | 82.22           | 109.83      | 92.66                 | -749.21                           | 3,612.19   | 1,788.15             | 1,596.04              | 192.10                  | 9.308             |                    |         |
| 12,600.00                    | 8,835.00            | 12,539.02           | 8,935.53            | 84.11           | 112.10      | 92.73                 | -748.00                           | 3,695.07   | 1,787.39             | 1,591.18              | 196.21                  | 9.109             |                    |         |
| 12,651.16                    | 8,835.00            | 12,585.03           | 8,936.77            | 85.08           | 113.37      | 92.77                 | -747.60                           | 3,741.06   | 1,787.32             | 1,588.89              | 198.43                  | 9.007             |                    |         |
| 12,700.00                    | 8,835.00            | 12,629.08           | 8,937.79            | 86.00           | 114.58      | 92.80                 | -747.35                           | 3,785.10   | 1,787.39             | 1,586.84              | 200.54                  | 8.913             |                    |         |
| 12,800.00                    | 8,835.00            | 12,724.75           | 8,939.90            | 87.90           | 117.21      | 92.87                 | -747.08                           | 3,880.74   | 1,787.81             | 1,582.75              | 205.06                  | 8.719             |                    |         |
| 12,900.00                    | 8,835.00            | 12,859.84           | 8,944.34            | 89.81           | 120.93      | 93.01                 | -745.02                           | 4,015.74   | 1,786.94             | 1,576.17              | 210.77                  | 8.478             |                    |         |
| 13,000.00                    | 8,835.00            | 12,970.44           | 8,949.41            | 91.72           | 123.99      | 93.18                 | -742.30                           | 4,126.19   | 1,785.33             | 1,569.60              | 215.74                  | 8.275             |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 431-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 13,100.00                    | 8,835.00            | 13,068.80           | 8,953.78            | 93.64           | 126.71      | 93.32                 | -739.32                           | 4,224.41   | 1,783.16             | 1,562.81              | 220.36                  | 8.092             |                    |         |
| 13,200.00                    | 8,835.00            | 13,154.50           | 8,956.15            | 95.56           | 129.08      | 93.40                 | -737.32                           | 4,310.05   | 1,781.59             | 1,556.98              | 224.61                  | 7.932             |                    |         |
| 13,300.00                    | 8,835.00            | 13,255.74           | 8,956.61            | 97.49           | 131.89      | 93.42                 | -735.76                           | 4,411.28   | 1,780.68             | 1,551.34              | 229.34                  | 7.764             |                    |         |
| 13,400.00                    | 8,835.00            | 13,364.48           | 8,956.16            | 99.42           | 134.90      | 93.41                 | -733.46                           | 4,519.99   | 1,779.13             | 1,544.83              | 234.30                  | 7.593             |                    |         |
| 13,500.00                    | 8,835.00            | 13,459.45           | 8,956.37            | 101.36          | 137.54      | 93.41                 | -731.35                           | 4,614.93   | 1,777.52             | 1,538.66              | 238.87                  | 7.442             |                    |         |
| 13,600.00                    | 8,835.00            | 13,557.93           | 8,958.74            | 103.30          | 140.29      | 93.49                 | -729.31                           | 4,713.36   | 1,776.20             | 1,532.67              | 243.53                  | 7.294             |                    |         |
| 13,700.00                    | 8,835.00            | 13,651.69           | 8,960.97            | 105.25          | 142.90      | 93.57                 | -727.50                           | 4,807.08   | 1,775.01             | 1,526.95              | 248.06                  | 7.156             |                    |         |
| 13,800.00                    | 8,835.00            | 13,758.46           | 8,963.57            | 107.20          | 145.88      | 93.65                 | -725.55                           | 4,913.80   | 1,773.95             | 1,520.97              | 252.98                  | 7.012             |                    |         |
| 13,900.00                    | 8,835.00            | 13,858.68           | 8,967.31            | 109.15          | 148.67      | 93.78                 | -723.32                           | 5,013.92   | 1,772.56             | 1,514.85              | 257.71                  | 6.878             |                    |         |
| 13,992.03                    | 8,835.00            | 13,926.62           | 8,969.74            | 110.95          | 150.57      | 93.86                 | -722.25                           | 5,081.81   | 1,771.89             | 1,510.57              | 261.32                  | 6.781             |                    |         |
| 14,000.00                    | 8,835.00            | 13,932.36           | 8,969.92            | 111.10          | 150.73      | 93.86                 | -722.21                           | 5,087.54   | 1,771.89             | 1,510.27              | 261.62                  | 6.773             |                    |         |
| 14,100.00                    | 8,835.00            | 14,026.70           | 8,972.58            | 113.06          | 153.37      | 93.95                 | -721.97                           | 5,181.85   | 1,772.41             | 1,506.23              | 266.18                  | 6.659             |                    |         |
| 14,200.00                    | 8,835.00            | 14,131.20           | 8,975.26            | 115.03          | 156.30      | 94.04                 | -721.47                           | 5,286.31   | 1,772.71             | 1,501.65              | 271.06                  | 6.540             |                    |         |
| 14,300.00                    | 8,835.00            | 14,248.46           | 8,978.03            | 116.99          | 159.59      | 94.13                 | -720.31                           | 5,403.53   | 1,772.49             | 1,496.15              | 276.35                  | 6.414             |                    |         |
| 14,400.00                    | 8,835.00            | 14,352.07           | 8,980.49            | 118.96          | 162.49      | 94.21                 | -718.65                           | 5,507.10   | 1,771.67             | 1,490.47              | 281.20                  | 6.300             |                    |         |
| 14,500.00                    | 8,835.00            | 14,461.70           | 8,982.93            | 120.93          | 165.57      | 94.29                 | -716.24                           | 5,616.68   | 1,770.22             | 1,483.98              | 286.23                  | 6.184             |                    |         |
| 14,600.00                    | 8,835.00            | 14,555.01           | 8,984.93            | 122.90          | 168.19      | 94.36                 | -714.44                           | 5,709.95   | 1,769.04             | 1,478.25              | 290.79                  | 6.084             |                    |         |
| 14,700.00                    | 8,835.00            | 14,660.76           | 8,987.58            | 124.88          | 171.16      | 94.45                 | -712.01                           | 5,815.64   | 1,767.52             | 1,471.81              | 295.71                  | 5.977             |                    |         |
| 14,800.00                    | 8,835.00            | 14,739.12           | 8,989.46            | 126.86          | 173.36      | 94.51                 | -710.55                           | 5,893.96   | 1,766.49             | 1,466.68              | 299.81                  | 5.892             |                    |         |
| 14,810.39                    | 8,835.00            | 14,745.28           | 8,989.61            | 127.06          | 173.53      | 94.52                 | -710.50                           | 5,900.12   | 1,766.48             | 1,466.31              | 300.17                  | 5.885             |                    |         |
| 14,900.00                    | 8,835.00            | 14,798.37           | 8,990.97            | 128.84          | 175.03      | 94.56                 | -710.62                           | 5,953.20   | 1,767.41             | 1,464.19              | 303.22                  | 5.829             |                    |         |
| 15,000.00                    | 8,835.00            | 14,901.65           | 8,993.52            | 130.82          | 177.94      | 94.64                 | -712.20                           | 6,056.42   | 1,769.73             | 1,461.63              | 308.10                  | 5.744             |                    |         |
| 15,100.00                    | 8,835.00            | 15,008.54           | 8,995.53            | 132.80          | 180.95      | 94.70                 | -713.18                           | 6,163.29   | 1,771.40             | 1,458.28              | 313.11                  | 5.657             |                    |         |
| 15,200.00                    | 8,835.00            | 15,099.30           | 8,997.20            | 134.79          | 183.51      | 94.75                 | -714.12                           | 6,254.04   | 1,773.17             | 1,455.60              | 317.57                  | 5.584             |                    |         |
| 15,300.00                    | 8,835.00            | 15,216.64           | 9,000.03            | 136.78          | 186.82      | 94.83                 | -715.01                           | 6,371.34   | 1,774.73             | 1,451.79              | 322.94                  | 5.496             |                    |         |
| 15,400.00                    | 8,835.00            | 15,333.05           | 9,003.09            | 138.76          | 190.10      | 94.93                 | -714.62                           | 6,487.70   | 1,775.19             | 1,446.95              | 328.24                  | 5.408             |                    |         |
| 15,500.00                    | 8,835.00            | 15,445.49           | 9,006.95            | 140.76          | 193.28      | 95.06                 | -713.43                           | 6,600.07   | 1,775.04             | 1,441.65              | 333.39                  | 5.324             |                    |         |
| 15,600.00                    | 8,835.00            | 15,549.09           | 9,009.56            | 142.75          | 196.20      | 95.14                 | -711.75                           | 6,703.63   | 1,774.24             | 1,435.97              | 338.27                  | 5.245             |                    |         |
| 15,700.00                    | 8,835.00            | 15,643.05           | 9,011.77            | 144.74          | 198.85      | 95.22                 | -710.39                           | 6,797.55   | 1,773.60             | 1,430.75              | 342.86                  | 5.173             |                    |         |
| 15,800.00                    | 8,835.00            | 15,777.48           | 9,016.67            | 146.74          | 202.65      | 95.38                 | -707.47                           | 6,931.84   | 1,772.43             | 1,423.83              | 348.60                  | 5.084             |                    |         |
| 15,900.00                    | 8,835.00            | 15,874.12           | 9,021.29            | 148.73          | 205.37      | 95.54                 | -704.09                           | 7,028.30   | 1,769.99             | 1,416.75              | 353.24                  | 5.011             |                    |         |
| 16,000.00                    | 8,835.00            | 15,942.81           | 9,023.01            | 150.73          | 207.31      | 95.60                 | -702.62                           | 7,096.96   | 1,768.70             | 1,411.61              | 357.09                  | 4.953 Alert       |                    |         |
| 16,038.62                    | 8,835.00            | 15,974.17           | 9,023.31            | 151.50          | 208.20      | 95.61                 | -702.36                           | 7,128.32   | 1,768.64             | 1,409.93              | 358.71                  | 4.931 Alert       |                    |         |
| 16,100.00                    | 8,835.00            | 16,028.78           | 9,023.64            | 152.73          | 209.74      | 95.62                 | -702.10                           | 7,182.92   | 1,768.75             | 1,407.32              | 361.44                  | 4.894 Alert       |                    |         |
| 16,200.00                    | 8,835.00            | 16,115.36           | 9,023.86            | 154.73          | 212.19      | 95.62                 | -702.21                           | 7,269.50   | 1,769.50             | 1,403.71              | 365.79                  | 4.837 Alert       |                    |         |
| 16,300.00                    | 8,835.00            | 16,229.24           | 9,023.68            | 156.73          | 215.41      | 95.61                 | -702.67                           | 7,383.38   | 1,770.51             | 1,399.43              | 371.08                  | 4.771 Alert       |                    |         |
| 16,400.00                    | 8,835.00            | 16,318.56           | 9,023.09            | 158.74          | 217.94      | 95.59                 | -702.70                           | 7,472.69   | 1,771.08             | 1,395.54              | 375.55                  | 4.716 Alert       |                    |         |
| 16,500.00                    | 8,835.00            | 16,445.95           | 9,021.77            | 160.74          | 221.55      | 95.55                 | -702.41                           | 7,600.08   | 1,771.37             | 1,390.10              | 381.27                  | 4.646 Alert       |                    |         |
| 16,600.00                    | 8,835.00            | 16,548.65           | 9,020.71            | 162.74          | 224.46      | 95.52                 | -701.04                           | 7,702.76   | 1,770.53             | 1,384.34              | 386.19                  | 4.585 Alert       |                    |         |
| 16,676.35                    | 8,835.00            | 16,611.94           | 9,020.55            | 164.28          | 226.25      | 95.51                 | -700.44                           | 7,766.05   | 1,770.25             | 1,380.79              | 389.46                  | 4.545 Alert       |                    |         |
| 16,700.00                    | 8,835.00            | 16,633.29           | 9,020.63            | 164.75          | 226.86      | 95.51                 | -700.33                           | 7,787.40   | 1,770.27             | 1,379.74              | 390.53                  | 4.533 Alert       |                    |         |
| 16,800.00                    | 8,835.00            | 16,727.53           | 9,022.04            | 166.76          | 229.53      | 95.56                 | -699.94                           | 7,881.63   | 1,770.59             | 1,375.45              | 395.14                  | 4.481 Alert       |                    |         |
| 16,900.00                    | 8,835.00            | 16,829.13           | 9,024.46            | 168.77          | 232.41      | 95.64                 | -699.51                           | 7,983.19   | 1,771.00             | 1,371.02              | 399.98                  | 4.428 Alert       |                    |         |
| 17,000.00                    | 8,835.00            | 16,931.00           | 9,026.50            | 170.77          | 235.30      | 95.70                 | -699.05                           | 8,085.04   | 1,771.34             | 1,366.51              | 404.83                  | 4.376 Alert       |                    |         |
| 17,100.00                    | 8,835.00            | 17,032.76           | 9,028.36            | 172.78          | 238.19      | 95.76                 | -698.40                           | 8,186.79   | 1,771.48             | 1,361.80              | 409.68                  | 4.324 Alert       |                    |         |
| 17,200.00                    | 8,835.00            | 17,129.02           | 9,031.23            | 174.79          | 240.92      | 95.85                 | -697.83                           | 8,283.01   | 1,771.78             | 1,357.44              | 414.34                  | 4.276 Alert       |                    |         |
| 17,300.00                    | 8,835.00            | 17,228.74           | 9,034.22            | 176.81          | 243.75      | 95.95                 | -697.32                           | 8,382.68   | 1,772.18             | 1,353.08              | 419.10                  | 4.229 Alert       |                    |         |
| 17,400.00                    | 8,835.00            | 17,331.23           | 9,037.19            | 178.82          | 246.65      | 96.05                 | -696.76                           | 8,485.12   | 1,772.53             | 1,348.58              | 423.96                  | 4.181 Alert       |                    |         |
| 17,500.00                    | 8,835.00            | 17,437.49           | 9,039.92            | 180.83          | 249.67      | 96.13                 | -695.95                           | 8,591.34   | 1,772.64             | 1,343.70              | 428.93                  | 4.133 Alert       |                    |         |
| 17,600.00                    | 8,835.00            | 17,542.19           | 9,042.23            | 182.84          | 252.64      | 96.21                 | -694.81                           | 8,696.01   | 1,772.38             | 1,338.52              | 433.86                  | 4.085 Alert       |                    |         |
| 17,700.00                    | 8,835.00            | 17,656.30           | 9,044.14            | 184.86          | 255.88      | 96.28                 | -693.13                           | 8,810.09   | 1,771.70             | 1,332.63              | 439.08                  | 4.035 Alert       |                    |         |
| 17,800.00                    | 8,835.00            | 17,742.89           | 9,044.45            | 186.87          | 258.34      | 96.29                 | -691.86                           | 8,896.67   | 1,770.88             | 1,327.39              | 443.49                  | 3.993 Alert       |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design      Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 335H - Wellbore #1 - Wellbore #1 |                           |                           |                           |                   |                |                             |                                         |               |                            |                             | Offset Site Error:            |                 | 0.00 ft              |
|-------------------------------------------------------------------------------------------------------|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|-----------------|----------------------|
| Survey Program:    431-MWD+HDGM                                                                       |                           |                           |                           |                   |                |                             |                                         |               |                            |                             | Offset Well Error:            |                 | 0.50 ft              |
| Reference                                                                                             |                           | Offset                    |                           | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               | Warning         |                      |
| Measured Depth<br>Depth<br>(ft)                                                                       | Vertical<br>Depth<br>(ft) | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) |                 | Separation<br>Factor |
| 17,846.51                                                                                             | 8,835.00                  | 17,782.40                 | 9,044.04                  | 187.81            | 259.46         | 96.27                       | -691.59                                 | 8,936.17      | 1,770.79                   | 1,325.26                    | 445.53                        | 3.975 Alert     |                      |
| 17,900.00                                                                                             | 8,835.00                  | 17,827.92                 | 9,043.52                  | 188.89            | 260.75         | 96.26                       | -691.48                                 | 8,981.70      | 1,770.91                   | 1,323.05                    | 447.86                        | 3.954 Alert     |                      |
| 18,000.00                                                                                             | 8,835.00                  | 17,930.23                 | 9,043.45                  | 190.91            | 263.66         | 96.25                       | -691.42                                 | 9,084.00      | 1,771.44                   | 1,318.67                    | 452.77                        | 3.912 Alert     |                      |
| 18,100.00                                                                                             | 8,835.00                  | 18,025.63                 | 9,046.07                  | 192.92            | 266.37         | 96.34                       | -690.93                                 | 9,179.36      | 1,771.82                   | 1,314.43                    | 457.40                        | 3.874 Alert     |                      |
| 18,200.00                                                                                             | 8,835.00                  | 18,141.29                 | 9,049.90                  | 194.94            | 269.66         | 96.46                       | -690.10                                 | 9,294.96      | 1,772.09                   | 1,309.43                    | 462.66                        | 3.830 Alert     |                      |
| 18,238.14                                                                                             | 8,835.00                  | 18,174.15                 | 9,050.88                  | 195.71            | 270.59         | 96.49                       | -689.75                                 | 9,327.80      | 1,772.04                   | 1,307.74                    | 464.31                        | 3.817 Alert     |                      |
| 18,300.00                                                                                             | 8,835.00                  | 18,228.90                 | 9,052.31                  | 196.96            | 272.15         | 96.54                       | -689.37                                 | 9,382.53      | 1,772.17                   | 1,305.14                    | 467.03                        | 3.795 Alert     |                      |
| 18,400.00                                                                                             | 8,835.00                  | 18,323.96                 | 9,054.35                  | 198.98            | 274.85         | 96.60                       | -689.10                                 | 9,477.57      | 1,772.72                   | 1,301.06                    | 471.65                        | 3.759 Alert     |                      |
| 18,500.00                                                                                             | 8,835.00                  | 18,440.27                 | 9,056.06                  | 201.00            | 278.16         | 96.66                       | -688.49                                 | 9,593.86      | 1,772.96                   | 1,295.98                    | 476.98                        | 3.717 Alert     |                      |
| 18,501.74                                                                                             | 8,835.00                  | 18,442.31                 | 9,056.08                  | 201.03            | 278.22         | 96.66                       | -688.47                                 | 9,595.90      | 1,772.96                   | 1,295.88                    | 477.08                        | 3.716 Alert     |                      |
| 18,600.00                                                                                             | 8,835.00                  | 18,525.42                 | 9,056.23                  | 203.02            | 280.58         | 96.66                       | -688.32                                 | 9,679.01      | 1,773.35                   | 1,292.02                    | 481.33                        | 3.684 Alert     |                      |
| 18,700.00                                                                                             | 8,835.00                  | 18,642.30                 | 9,055.39                  | 205.04            | 283.91         | 96.64                       | -687.57                                 | 9,795.88      | 1,773.17                   | 1,286.44                    | 486.74                        | 3.643 Alert     |                      |
| 18,741.49                                                                                             | 8,835.00                  | 18,677.56                 | 9,055.27                  | 205.88            | 284.91         | 96.63                       | -687.31                                 | 9,831.15      | 1,773.10                   | 1,284.55                    | 488.55                        | 3.629 Alert     |                      |
| 18,800.00                                                                                             | 8,835.00                  | 18,735.48                 | 9,055.47                  | 207.06            | 286.56         | 96.64                       | -687.03                                 | 9,889.06      | 1,773.19                   | 1,281.84                    | 491.36                        | 3.609 Alert     |                      |
| 18,900.00                                                                                             | 8,835.00                  | 18,857.16                 | 9,057.47                  | 209.08            | 290.02         | 96.71                       | -685.38                                 | 10,010.71     | 1,772.63                   | 1,275.82                    | 496.80                        | 3.568 Alert     |                      |
| 19,000.00                                                                                             | 8,835.00                  | 18,958.15                 | 9,059.05                  | 211.10            | 292.89         | 96.76                       | -683.15                                 | 10,111.66     | 1,771.20                   | 1,269.58                    | 501.62                        | 3.531 Alert     |                      |
| 19,100.00                                                                                             | 8,835.00                  | 19,061.69                 | 9,060.60                  | 213.12            | 295.83         | 96.82                       | -681.10                                 | 10,215.17     | 1,770.01                   | 1,263.50                    | 506.51                        | 3.495 Alert     |                      |
| 19,200.00                                                                                             | 8,835.00                  | 19,164.73                 | 9,062.04                  | 215.15            | 298.76         | 96.87                       | -678.66                                 | 10,318.18     | 1,768.42                   | 1,257.03                    | 511.39                        | 3.458 Alert     |                      |
| 19,221.83                                                                                             | 8,835.00                  | 19,158.00                 | 9,061.95                  | 215.59            | 298.57         | 96.87                       | -678.82                                 | 10,311.45     | 1,768.30                   | 1,256.71                    | 511.59                        | 3.456 Alert, ES |                      |
| 19,308.27                                                                                             | 8,835.00                  | 19,158.00                 | 9,061.95                  | 217.34            | 298.57         | 96.87                       | -678.82                                 | 10,311.45     | 1,770.41                   | 1,258.04                    | 512.37                        | 3.455 Alert, SF |                      |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Site Error: | 0.00 ft |
|---------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 438-MWD+HDGM, 9290-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Well Error: | 0.50 ft |
| Reference                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                    | Warning |
| Measured Depth (ft)                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor  |         |
| 0.00                                        | 0.00                | 13.82               | 13.82               | 0.50            | 0.50        | -176.46               | -1,723.38                         | -106.64    | 1,726.67             |                       |                         |                    |         |
| 100.00                                      | 100.00              | 110.43              | 110.42              | 0.52            | 0.53        | -176.46               | -1,723.51                         | -106.51    | 1,726.80             | 1,725.75              | 1.05                    | 1,642.168          |         |
| 200.00                                      | 200.00              | 207.03              | 207.03              | 0.70            | 0.61        | -176.47               | -1,723.84                         | -106.20    | 1,727.12             | 1,725.81              | 1.31                    | 1,315.798          |         |
| 300.00                                      | 300.00              | 303.64              | 303.63              | 0.99            | 0.72        | -176.49               | -1,724.37                         | -105.69    | 1,727.64             | 1,725.94              | 1.70                    | 1,013.764          |         |
| 400.00                                      | 400.00              | 400.24              | 400.23              | 1.31            | 0.84        | -176.52               | -1,725.11                         | -104.99    | 1,728.36             | 1,726.20              | 2.15                    | 803.605            |         |
| 500.00                                      | 500.00              | 496.20              | 496.18              | 1.65            | 1.07        | -176.55               | -1,726.05                         | -104.13    | 1,729.28             | 1,726.56              | 2.72                    | 635.910            |         |
| 600.00                                      | 600.00              | 595.87              | 595.84              | 1.99            | 1.40        | -176.58               | -1,727.19                         | -103.24    | 1,730.38             | 1,726.99              | 3.39                    | 510.419            |         |
| 700.00                                      | 700.00              | 693.41              | 693.37              | 2.34            | 1.73        | -176.60               | -1,728.32                         | -102.62    | 1,731.49             | 1,727.42              | 4.07                    | 425.483            |         |
| 800.00                                      | 800.00              | 792.24              | 792.19              | 2.69            | 2.07        | -176.62               | -1,729.58                         | -102.17    | 1,732.74             | 1,727.98              | 4.76                    | 363.894            |         |
| 900.00                                      | 900.00              | 894.25              | 894.19              | 3.04            | 2.43        | -176.64               | -1,730.88                         | -101.51    | 1,733.97             | 1,728.49              | 5.47                    | 316.939            |         |
| 1,000.00                                    | 1,000.00            | 989.96              | 989.88              | 3.40            | 2.77        | -176.68               | -1,732.21                         | -100.60    | 1,735.30             | 1,729.14              | 6.16                    | 281.618            |         |
| 1,100.00                                    | 1,100.00            | 1,112.58            | 1,112.50            | 3.75            | 3.19        | -176.73               | -1,733.31                         | -99.14     | 1,736.14             | 1,729.20              | 6.94                    | 250.077            |         |
| 1,200.00                                    | 1,200.00            | 1,232.14            | 1,232.04            | 4.11            | 3.59        | -176.70               | -1,732.57                         | -99.90     | 1,735.54             | 1,727.85              | 7.69                    | 225.604            |         |
| 1,300.00                                    | 1,300.00            | 1,343.65            | 1,343.52            | 4.46            | 3.95        | -176.62               | -1,730.92                         | -102.28    | 1,734.19             | 1,725.77              | 8.41                    | 206.129            |         |
| 1,400.00                                    | 1,400.00            | 1,443.47            | 1,443.28            | 4.82            | 4.29        | -176.52               | -1,729.04                         | -105.09    | 1,732.47             | 1,723.37              | 9.10                    | 190.312            |         |
| 1,500.00                                    | 1,500.00            | 1,532.13            | 1,531.89            | 5.18            | 4.59        | -176.44               | -1,727.71                         | -107.50    | 1,731.15             | 1,721.38              | 9.76                    | 177.358            |         |
| 1,600.00                                    | 1,600.00            | 1,630.29            | 1,630.02            | 5.53            | 4.92        | -176.35               | -1,726.61                         | -110.19    | 1,730.20             | 1,719.74              | 10.45                   | 165.516            |         |
| 1,700.00                                    | 1,700.00            | 1,732.81            | 1,732.49            | 5.89            | 5.27        | -176.25               | -1,725.44                         | -112.99    | 1,729.24             | 1,718.07              | 11.16                   | 154.903            |         |
| 1,800.00                                    | 1,800.00            | 1,837.77            | 1,837.40            | 6.25            | 5.64        | -176.15               | -1,723.98                         | -115.93    | 1,728.02             | 1,716.14              | 11.88                   | 145.412            |         |
| 1,900.00                                    | 1,900.00            | 1,936.31            | 1,935.89            | 6.61            | 5.98        | -176.06               | -1,722.45                         | -118.48    | 1,726.65             | 1,714.07              | 12.58                   | 137.213            |         |
| 2,000.00                                    | 2,000.00            | 2,029.15            | 2,028.70            | 6.96            | 6.30        | -175.99               | -1,721.35                         | -120.74    | 1,725.64             | 1,712.38              | 13.27                   | 130.081            |         |
| 2,044.39                                    | 2,044.39            | 2,071.95            | 2,071.49            | 7.12            | 6.45        | -163.17               | -1,720.94                         | -121.80    | 1,725.46             | 1,711.88              | 13.57                   | 127.110 CC         |         |
| 2,100.00                                    | 2,099.99            | 2,126.07            | 2,125.58            | 7.32            | 6.64        | -163.13               | -1,720.47                         | -123.20    | 1,725.74             | 1,711.78              | 13.96                   | 123.592 ES         |         |
| 2,200.00                                    | 2,199.96            | 2,225.52            | 2,224.99            | 7.68            | 6.99        | -163.06               | -1,719.66                         | -125.99    | 1,727.64             | 1,712.97              | 14.67                   | 117.761            |         |
| 2,300.00                                    | 2,299.86            | 2,327.71            | 2,327.14            | 8.04            | 7.35        | -162.99               | -1,718.74                         | -128.89    | 1,731.13             | 1,715.74              | 15.39                   | 112.495            |         |
| 2,400.00                                    | 2,399.68            | 2,431.14            | 2,430.53            | 8.39            | 7.72        | -162.94               | -1,717.66                         | -131.82    | 1,736.13             | 1,720.02              | 16.11                   | 107.760            |         |
| 2,500.00                                    | 2,499.37            | 2,533.13            | 2,532.46            | 8.75            | 8.08        | -162.89               | -1,716.36                         | -134.91    | 1,742.59             | 1,725.76              | 16.83                   | 103.543            |         |
| 2,600.00                                    | 2,598.90            | 2,629.83            | 2,629.10            | 9.11            | 8.42        | -162.86               | -1,715.14                         | -137.85    | 1,750.73             | 1,733.20              | 17.53                   | 99.869             |         |
| 2,700.00                                    | 2,698.26            | 2,725.07            | 2,724.30            | 9.46            | 8.76        | -162.84               | -1,714.19                         | -140.72    | 1,760.78             | 1,742.56              | 18.23                   | 96.609             |         |
| 2,800.00                                    | 2,797.40            | 2,829.98            | 2,829.15            | 9.82            | 9.13        | -162.84               | -1,713.11                         | -143.67    | 1,772.44             | 1,753.49              | 18.96                   | 93.502             |         |
| 2,900.00                                    | 2,896.30            | 2,928.23            | 2,927.35            | 10.18           | 9.48        | -162.84               | -1,711.94                         | -146.60    | 1,785.63             | 1,765.96              | 19.66                   | 90.808             |         |
| 3,000.00                                    | 2,994.93            | 2,999.57            | 2,998.66            | 10.54           | 9.74        | -162.84               | -1,711.72                         | -148.55    | 1,801.28             | 1,781.01              | 20.27                   | 88.854             |         |
| 3,100.00                                    | 3,093.26            | 3,083.97            | 3,083.05            | 10.90           | 10.04       | -162.88               | -1,712.49                         | -150.29    | 1,819.75             | 1,798.83              | 20.93                   | 86.962             |         |
| 3,195.07                                    | 3,186.42            | 3,173.91            | 3,172.96            | 11.24           | 10.36       | -162.93               | -1,713.70                         | -152.18    | 1,839.25             | 1,817.66              | 21.58                   | 85.216             |         |
| 3,200.00                                    | 3,191.25            | 3,178.73            | 3,177.78            | 11.26           | 10.37       | -162.94               | -1,713.77                         | -152.28    | 1,840.30             | 1,818.68              | 21.62                   | 85.126             |         |
| 3,300.00                                    | 3,289.08            | 3,264.08            | 3,263.10            | 11.62           | 10.67       | -163.06               | -1,715.16                         | -153.63    | 1,861.85             | 1,839.58              | 22.27                   | 83.604             |         |
| 3,400.00                                    | 3,386.91            | 3,346.36            | 3,345.36            | 11.98           | 10.96       | -163.23               | -1,717.31                         | -153.35    | 1,884.24             | 1,861.33              | 22.90                   | 82.264             |         |
| 3,500.00                                    | 3,484.74            | 3,475.17            | 3,474.10            | 12.35           | 11.40       | -163.53               | -1,720.83                         | -151.44    | 1,906.85             | 1,883.13              | 23.72                   | 80.395             |         |
| 3,600.00                                    | 3,582.58            | 3,594.64            | 3,593.55            | 12.72           | 11.80       | -163.79               | -1,721.68                         | -149.87    | 1,927.36             | 1,902.87              | 24.49                   | 78.687             |         |
| 3,700.00                                    | 3,680.41            | 3,685.05            | 3,683.95            | 13.09           | 12.11       | -163.99               | -1,722.15                         | -148.58    | 1,947.72             | 1,922.56              | 25.16                   | 77.406             |         |
| 3,800.00                                    | 3,778.24            | 3,780.71            | 3,779.61            | 13.46           | 12.44       | -164.19               | -1,722.80                         | -147.15    | 1,968.26             | 1,942.41              | 25.85                   | 76.133             |         |
| 3,900.00                                    | 3,876.08            | 3,876.81            | 3,875.69            | 13.83           | 12.77       | -164.39               | -1,723.54                         | -145.84    | 1,988.92             | 1,962.37              | 26.55                   | 74.924             |         |
| 4,000.00                                    | 3,973.91            | 3,975.50            | 3,974.37            | 14.21           | 13.11       | -164.58               | -1,724.28                         | -144.81    | 2,009.59             | 1,982.34              | 27.25                   | 73.742             |         |
| 4,100.00                                    | 4,071.74            | 4,073.90            | 4,072.76            | 14.58           | 13.45       | -164.77               | -1,725.02                         | -143.85    | 2,030.29             | 2,002.33              | 27.96                   | 72.619             |         |
| 4,200.00                                    | 4,169.57            | 4,175.37            | 4,174.23            | 14.96           | 13.80       | -164.95               | -1,725.52                         | -143.05    | 2,050.77             | 2,022.09              | 28.68                   | 71.510             |         |
| 4,300.00                                    | 4,267.41            | 4,265.69            | 4,264.55            | 15.33           | 14.11       | -165.11               | -1,726.16                         | -142.44    | 2,071.47             | 2,042.11              | 29.36                   | 70.566             |         |
| 4,400.00                                    | 4,365.24            | 4,363.96            | 4,362.82            | 15.71           | 14.46       | -165.26               | -1,727.01                         | -142.03    | 2,092.35             | 2,062.28              | 30.07                   | 69.591             |         |
| 4,500.00                                    | 4,463.07            | 4,465.86            | 4,464.70            | 16.09           | 14.82       | -165.42               | -1,727.68                         | -141.80    | 2,113.05             | 2,082.25              | 30.79                   | 68.618             |         |
| 4,600.00                                    | 4,560.90            | 4,563.06            | 4,561.91            | 16.47           | 15.16       | -165.57               | -1,728.30                         | -141.53    | 2,133.74             | 2,102.23              | 31.50                   | 67.729             |         |
| 4,700.00                                    | 4,658.74            | 4,660.46            | 4,659.31            | 16.85           | 15.50       | -165.70               | -1,728.89                         | -141.51    | 2,154.42             | 2,122.20              | 32.22                   | 66.874             |         |
| 4,800.00                                    | 4,756.57            | 4,756.75            | 4,755.59            | 17.23           | 15.84       | -165.84               | -1,729.56                         | -141.50    | 2,175.19             | 2,142.27              | 32.92                   | 66.066             |         |
| 4,900.00                                    | 4,854.40            | 4,856.71            | 4,855.55            | 17.61           | 16.19       | -165.97               | -1,730.23                         | -141.65    | 2,195.96             | 2,162.31              | 33.65                   | 65.260             |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 336H - ST01 - ST01 |         | Offset Site Error: 0.00 ft |  |
|---------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|----------------------------------------------------------------------|---------|----------------------------|--|
| Survey Program: 438-MWD+HDGM, 9290-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: 0.50 ft                                           |         |                            |  |
| Reference                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                                                                      | Warning |                            |  |
| Measured Depth (ft)                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                                                                      |         |                            |  |
| 5,000.00                                    | 4,952.23            | 4,946.34            | 4,945.17            | 17.99           | 16.51       | -166.08               | -1,730.78                         | -141.82    | 2,216.70             | 2,182.37              | 34.33                   | 64.569            |                                                                      |         |                            |  |
| 5,100.00                                    | 5,050.07            | 5,027.50            | 5,026.32            | 18.37           | 16.79       | -166.16               | -1,731.94                         | -142.93    | 2,238.22             | 2,203.25              | 34.98                   | 63.995            |                                                                      |         |                            |  |
| 5,200.00                                    | 5,147.90            | 5,126.70            | 5,125.49            | 18.75           | 17.14       | -166.24               | -1,733.54                         | -144.93    | 2,259.96             | 2,224.27              | 35.70                   | 63.306            |                                                                      |         |                            |  |
| 5,300.00                                    | 5,245.73            | 5,222.43            | 5,221.18            | 19.14           | 17.48       | -166.31               | -1,735.11                         | -147.02    | 2,281.74             | 2,245.33              | 36.41                   | 62.672            |                                                                      |         |                            |  |
| 5,400.00                                    | 5,343.56            | 5,317.54            | 5,316.25            | 19.52           | 17.82       | -166.37               | -1,736.75                         | -149.13    | 2,303.59             | 2,266.47              | 37.11                   | 62.067            |                                                                      |         |                            |  |
| 5,500.00                                    | 5,441.40            | 5,412.21            | 5,410.88            | 19.90           | 18.16       | -166.43               | -1,738.52                         | -151.50    | 2,325.59             | 2,287.77              | 37.82                   | 61.492            |                                                                      |         |                            |  |
| 5,600.00                                    | 5,539.23            | 5,508.86            | 5,507.44            | 20.29           | 18.50       | -166.45               | -1,740.33                         | -155.34    | 2,347.61             | 2,309.07              | 38.53                   | 60.922            |                                                                      |         |                            |  |
| 5,700.00                                    | 5,637.06            | 5,598.02            | 5,596.46            | 20.67           | 18.82       | -166.45               | -1,742.18                         | -159.86    | 2,369.83             | 2,330.62              | 39.22                   | 60.432            |                                                                      |         |                            |  |
| 5,800.00                                    | 5,734.90            | 5,684.85            | 5,683.16            | 21.05           | 19.13       | -166.45               | -1,744.39                         | -164.02    | 2,392.51             | 2,352.62              | 39.89                   | 59.985            |                                                                      |         |                            |  |
| 5,900.00                                    | 5,832.73            | 5,784.75            | 5,782.92            | 21.44           | 19.48       | -166.46               | -1,747.05                         | -168.53    | 2,415.30             | 2,374.68              | 40.62                   | 59.465            |                                                                      |         |                            |  |
| 6,000.00                                    | 5,930.56            | 5,882.76            | 5,880.81            | 21.83           | 19.83       | -166.47               | -1,749.61                         | -172.76    | 2,438.04             | 2,396.70              | 41.34                   | 58.974            |                                                                      |         |                            |  |
| 6,100.00                                    | 6,028.39            | 5,981.82            | 5,979.76            | 22.21           | 20.19       | -166.49               | -1,752.16                         | -176.69    | 2,460.75             | 2,418.68              | 42.07                   | 58.492            |                                                                      |         |                            |  |
| 6,200.00                                    | 6,126.23            | 6,089.81            | 6,087.64            | 22.60           | 20.57       | -166.52               | -1,754.75                         | -180.58    | 2,483.28             | 2,440.44              | 42.84                   | 57.964            |                                                                      |         |                            |  |
| 6,300.00                                    | 6,224.06            | 6,196.24            | 6,193.99            | 22.98           | 20.95       | -166.55               | -1,756.65                         | -184.51    | 2,505.20             | 2,461.60              | 43.61                   | 57.451            |                                                                      |         |                            |  |
| 6,400.00                                    | 6,321.89            | 6,286.22            | 6,283.90            | 23.37           | 21.27       | -166.58               | -1,758.34                         | -187.63    | 2,527.23             | 2,482.93              | 44.29                   | 57.057            |                                                                      |         |                            |  |
| 6,500.00                                    | 6,419.72            | 6,370.98            | 6,368.59            | 23.76           | 21.58       | -166.61               | -1,760.26                         | -190.48    | 2,549.62             | 2,504.67              | 44.96                   | 56.715            |                                                                      |         |                            |  |
| 6,600.00                                    | 6,517.56            | 6,454.17            | 6,451.70            | 24.14           | 21.87       | -166.64               | -1,762.66                         | -193.07    | 2,572.62             | 2,527.01              | 45.61                   | 56.406            |                                                                      |         |                            |  |
| 6,700.00                                    | 6,615.39            | 6,549.24            | 6,546.68            | 24.53           | 22.22       | -166.68               | -1,765.64                         | -195.92    | 2,595.87             | 2,549.54              | 46.32                   | 56.041            |                                                                      |         |                            |  |
| 6,800.00                                    | 6,713.22            | 6,643.03            | 6,640.36            | 24.92           | 22.55       | -166.71               | -1,768.71                         | -199.25    | 2,619.25             | 2,572.22              | 47.03                   | 55.697            |                                                                      |         |                            |  |
| 6,900.00                                    | 6,811.05            | 6,753.43            | 6,750.61            | 25.30           | 22.95       | -166.72               | -1,772.24                         | -203.89    | 2,642.58             | 2,594.77              | 47.82                   | 55.266            |                                                                      |         |                            |  |
| 7,000.00                                    | 6,908.89            | 6,878.42            | 6,875.53            | 25.69           | 23.40       | -166.78               | -1,774.93                         | -206.91    | 2,664.83             | 2,616.16              | 48.67                   | 54.749            |                                                                      |         |                            |  |
| 7,100.00                                    | 7,006.72            | 6,986.12            | 6,983.20            | 26.08           | 23.78       | -166.86               | -1,776.65                         | -208.60    | 2,686.58             | 2,637.14              | 49.45                   | 54.334            |                                                                      |         |                            |  |
| 7,200.00                                    | 7,104.55            | 7,087.18            | 7,084.25            | 26.47           | 24.14       | -166.94               | -1,777.92                         | -209.69    | 2,708.00             | 2,657.81              | 50.19                   | 53.958            |                                                                      |         |                            |  |
| 7,216.87                                    | 7,121.05            | 7,100.95            | 7,098.02            | 26.53           | 24.19       | -166.95               | -1,778.10                         | -209.75    | 2,711.62             | 2,661.33              | 50.30                   | 53.913            |                                                                      |         |                            |  |
| 7,300.00                                    | 7,202.57            | 7,228.78            | 7,225.82            | 26.85           | 24.63       | -167.18               | -1,778.31                         | -207.35    | 2,727.52             | 2,676.42              | 51.10                   | 53.379            |                                                                      |         |                            |  |
| 7,400.00                                    | 7,301.06            | 7,307.87            | 7,304.85            | 27.23           | 24.90       | -167.36               | -1,778.32                         | -204.42    | 2,744.43             | 2,692.71              | 51.72                   | 53.065            |                                                                      |         |                            |  |
| 7,500.00                                    | 7,399.97            | 7,389.51            | 7,386.46            | 27.61           | 25.18       | -167.51               | -1,778.88                         | -202.22    | 2,759.48             | 2,707.13              | 52.35                   | 52.714            |                                                                      |         |                            |  |
| 7,600.00                                    | 7,499.23            | 7,488.36            | 7,485.29            | 27.98           | 25.52       | -167.64               | -1,779.87                         | -200.50    | 2,772.31             | 2,719.26              | 53.05                   | 52.255            |                                                                      |         |                            |  |
| 7,700.00                                    | 7,598.77            | 7,588.97            | 7,585.89            | 28.34           | 25.87       | -167.74               | -1,780.87                         | -199.41    | 2,782.59             | 2,728.83              | 53.77                   | 51.754            |                                                                      |         |                            |  |
| 7,800.00                                    | 7,698.53            | 7,688.65            | 7,685.56            | 28.70           | 26.22       | -167.80               | -1,781.83                         | -199.10    | 2,790.30             | 2,735.82              | 54.47                   | 51.224            |                                                                      |         |                            |  |
| 7,900.00                                    | 7,798.44            | 7,780.76            | 7,777.66            | 29.05           | 26.54       | -167.84               | -1,782.79                         | -198.90    | 2,795.53             | 2,740.39              | 55.14                   | 50.699            |                                                                      |         |                            |  |
| 8,000.00                                    | 7,898.42            | 7,853.31            | 7,850.21            | 29.39           | 26.80       | -167.86               | -1,784.05                         | -198.65    | 2,798.90             | 2,743.20              | 55.71                   | 50.243            |                                                                      |         |                            |  |
| 8,013.58                                    | 7,912.00            | 7,864.00            | 7,860.89            | 29.43           | 26.84       | 179.36                | -1,784.30                         | -198.61    | 2,799.24             | 2,743.45              | 55.79                   | 50.177            |                                                                      |         |                            |  |
| 8,100.00                                    | 7,998.42            | 7,990.80            | 7,987.67            | 29.73           | 27.28       | 179.32                | -1,785.92                         | -196.81    | 2,800.23             | 2,743.65              | 56.58                   | 49.495            |                                                                      |         |                            |  |
| 8,200.00                                    | 8,098.42            | 8,076.80            | 8,073.64            | 30.07           | 27.57       | 179.29                | -1,787.00                         | -195.38    | 2,801.48             | 2,744.28              | 57.20                   | 48.977            |                                                                      |         |                            |  |
| 8,300.00                                    | 8,198.42            | 8,193.24            | 8,190.04            | 30.41           | 27.98       | 179.23                | -1,788.21                         | -192.43    | 2,802.55             | 2,744.59              | 57.96                   | 48.349            |                                                                      |         |                            |  |
| 8,363.62                                    | 8,262.04            | 8,256.46            | 8,253.25            | 30.62           | 28.19       | 179.21                | -1,788.65                         | -191.29    | 2,803.01             | 2,744.61              | 58.40                   | 47.995            |                                                                      |         |                            |  |
| 8,400.00                                    | 8,298.40            | 8,282.10            | 8,278.89            | 30.75           | 28.28       | 89.53                 | -1,788.90                         | -191.01    | 2,803.37             | 2,744.77              | 58.60                   | 47.839            |                                                                      |         |                            |  |
| 8,450.00                                    | 8,348.10            | 8,317.16            | 8,313.94            | 30.91           | 28.41       | 89.53                 | -1,789.42                         | -190.79    | 2,804.06             | 2,745.20              | 58.87                   | 47.634            |                                                                      |         |                            |  |
| 8,500.00                                    | 8,397.14            | 8,357.28            | 8,354.06            | 31.07           | 28.55       | 89.60                 | -1,790.20                         | -190.75    | 2,804.98             | 2,745.82              | 59.16                   | 47.414            |                                                                      |         |                            |  |
| 8,550.00                                    | 8,445.15            | 8,403.86            | 8,400.63            | 31.23           | 28.71       | 89.76                 | -1,791.17                         | -190.84    | 2,805.98             | 2,746.49              | 59.48                   | 47.173            |                                                                      |         |                            |  |
| 8,600.00                                    | 8,491.77            | 8,448.47            | 8,445.22            | 31.38           | 28.87       | 89.99                 | -1,792.11                         | -191.05    | 2,807.08             | 2,747.28              | 59.80                   | 46.943            |                                                                      |         |                            |  |
| 8,650.00                                    | 8,536.65            | 8,490.40            | 8,487.15            | 31.52           | 29.02       | 90.24                 | -1,793.04                         | -191.37    | 2,808.36             | 2,748.26              | 60.10                   | 46.728            |                                                                      |         |                            |  |
| 8,700.00                                    | 8,579.43            | 8,530.20            | 8,526.93            | 31.66           | 29.16       | 90.51                 | -1,793.96                         | -191.81    | 2,809.92             | 2,749.52              | 60.40                   | 46.526            |                                                                      |         |                            |  |
| 8,750.00                                    | 8,619.80            | 8,565.24            | 8,561.95            | 31.80           | 29.29       | 90.74                 | -1,794.82                         | -192.18    | 2,811.86             | 2,751.19              | 60.67                   | 46.346            |                                                                      |         |                            |  |
| 8,800.00                                    | 8,657.44            | 8,598.16            | 8,594.86            | 31.93           | 29.41       | 90.95                 | -1,795.68                         | -192.43    | 2,814.27             | 2,753.32              | 60.94                   | 46.179            |                                                                      |         |                            |  |
| 8,850.00                                    | 8,692.08            | 8,623.00            | 8,619.69            | 32.06           | 29.50       | 91.01                 | -1,796.37                         | -192.55    | 2,817.24             | 2,756.05              | 61.18                   | 46.046            |                                                                      |         |                            |  |
| 8,900.00                                    | 8,723.44            | 8,650.59            | 8,647.27            | 32.19           | 29.59       | 91.09                 | -1,797.20                         | -192.67    | 2,820.86             | 2,759.41              | 61.45                   | 45.904            |                                                                      |         |                            |  |
| 8,950.00                                    | 8,751.29            | 8,670.88            | 8,667.55            | 32.34           | 29.67       | 90.99                 | -1,797.87                         | -192.78    | 2,825.22             | 2,763.52              | 61.70                   | 45.792            |                                                                      |         |                            |  |
| 9,000.00                                    | 8,775.42            | 8,688.38            | 8,685.04            | 32.50           | 29.73       | 90.79                 | -1,798.49                         | -192.89    | 2,830.36             | 2,768.42              | 61.95                   | 45.691            |                                                                      |         |                            |  |
| 9,050.00                                    | 8,795.64            | 8,702.95            | 8,699.60            | 32.67           | 29.78       | 90.46                 | -1,799.04                         | -192.99    | 2,836.31             | 2,774.11              | 62.20                   | 45.600            |                                                                      |         |                            |  |
| 9,100.00                                    | 8,811.80            | 8,717.00            | 8,713.64            | 32.87           | 29.83       | 90.05                 | -1,799.59                         | -193.10    | 2,843.08             | 2,780.60              | 62.47                   | 45.509            |                                                                      |         |                            |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                |                |                |                 |        |                   |                              |              |                 |                  |                    |                   | Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 336H - ST01 - ST01 |         | Offset Site Error: 0.00 ft |  |
|---------------------------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------------|--------------|-----------------|------------------|--------------------|-------------------|----------------------------------------------------------------------|---------|----------------------------|--|
| Survey Program: 438-MWD+HDGM, 9290-MWD+HDGM |                |                |                |                 |        |                   |                              |              |                 |                  |                    |                   | Offset Well Error: 0.50 ft                                           |         |                            |  |
| Reference                                   |                | Offset         |                | Semi Major Axis |        |                   | Distance                     |              |                 |                  |                    |                   |                                                                      | Warning |                            |  |
| Measured Depth                              | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre +N/-S | Centre +E/-W | Between Centres | Between Ellipses | Minimum Separation | Separation Factor |                                                                      |         |                            |  |
| (ft)                                        | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | (ft)                         | (ft)         | (ft)            | (ft)             | (ft)               |                   |                                                                      |         |                            |  |
| 9,150.00                                    | 8,823.77       | 8,717.00       | 8,713.64       | 33.10           | 29.83  | 89.28             | -1,799.59                    | -193.10      | 2,850.66        | 2,787.97         | 62.69              | 45.471            |                                                                      |         |                            |  |
| 9,200.00                                    | 8,831.47       | 8,727.94       | 8,724.57       | 33.34           | 29.87  | 88.65             | -1,800.03                    | -193.19      | 2,859.02        | 2,796.03         | 62.99              | 45.389            |                                                                      |         |                            |  |
| 9,250.00                                    | 8,834.84       | 8,730.02       | 8,726.64       | 33.60           | 29.88  | 87.77             | -1,800.12                    | -193.20      | 2,868.12        | 2,804.86         | 63.25              | 45.343            |                                                                      |         |                            |  |
| 9,263.62                                    | 8,835.00       | 9,936.91       | 9,297.24       | 33.67           | 36.85  | 98.99             | -1,813.15                    | 474.66       | 2,868.81        | 2,798.49         | 70.32              | 40.797            |                                                                      |         |                            |  |
| 9,300.00                                    | 8,835.00       | 9,979.53       | 9,298.41       | 33.88           | 37.49  | 99.02             | -1,810.92                    | 517.20       | 2,867.30        | 2,796.14         | 71.16              | 40.295            |                                                                      |         |                            |  |
| 9,400.00                                    | 8,835.00       | 10,069.15      | 9,301.43       | 34.53           | 38.90  | 99.09             | -1,806.06                    | 606.64       | 2,863.08        | 2,789.85         | 73.23              | 39.097            |                                                                      |         |                            |  |
| 9,500.00                                    | 8,835.00       | 10,126.67      | 9,303.07       | 35.30           | 39.87  | 99.13             | -1,803.64                    | 664.09       | 2,859.96        | 2,784.99         | 74.98              | 38.144            |                                                                      |         |                            |  |
| 9,600.00                                    | 8,835.00       | 10,201.78      | 9,304.59       | 36.17           | 41.21  | 99.17             | -1,801.58                    | 739.15       | 2,858.13        | 2,780.95         | 77.18              | 37.034            |                                                                      |         |                            |  |
| 9,700.00                                    | 8,835.00       | 10,274.74      | 9,306.21       | 37.13           | 42.56  | 99.20             | -1,800.02                    | 812.08       | 2,857.00        | 2,777.52         | 79.48              | 35.945            |                                                                      |         |                            |  |
| 9,742.29                                    | 8,835.00       | 10,301.10      | 9,307.27       | 37.57           | 43.07  | 99.22             | -1,799.62                    | 838.41       | 2,856.88        | 2,776.46         | 80.42              | 35.524            |                                                                      |         |                            |  |
| 9,800.00                                    | 8,835.00       | 10,338.00      | 9,309.29       | 38.18           | 43.78  | 99.27             | -1,799.22                    | 875.26       | 2,857.10        | 2,775.38         | 81.72              | 34.962            |                                                                      |         |                            |  |
| 9,900.00                                    | 8,835.00       | 10,430.80      | 9,315.72       | 39.31           | 45.64  | 99.39             | -1,798.44                    | 967.83       | 2,857.99        | 2,773.32         | 84.67              | 33.755            |                                                                      |         |                            |  |
| 10,000.00                                   | 8,835.00       | 10,553.44      | 9,324.00       | 40.51           | 48.23  | 99.56             | -1,797.03                    | 1,090.18     | 2,858.54        | 2,770.15         | 88.39              | 32.339            |                                                                      |         |                            |  |
| 10,100.00                                   | 8,835.00       | 10,646.72      | 9,328.01       | 41.78           | 50.27  | 99.64             | -1,795.92                    | 1,183.37     | 2,858.69        | 2,767.04         | 91.65              | 31.192            |                                                                      |         |                            |  |
| 10,200.00                                   | 8,835.00       | 10,719.00      | 9,329.83       | 43.10           | 51.88  | 99.67             | -1,796.03                    | 1,255.62     | 2,859.78        | 2,765.24         | 94.54              | 30.248            |                                                                      |         |                            |  |
| 10,300.00                                   | 8,835.00       | 10,791.67      | 9,331.28       | 44.49           | 53.55  | 99.70             | -1,796.91                    | 1,328.27     | 2,861.84        | 2,764.30         | 97.54              | 29.340            |                                                                      |         |                            |  |
| 10,400.00                                   | 8,835.00       | 10,919.34      | 9,334.08       | 45.92           | 56.54  | 99.75             | -1,798.32                    | 1,455.91     | 2,863.93        | 2,762.03         | 101.91             | 28.104            |                                                                      |         |                            |  |
| 10,500.00                                   | 8,835.00       | 11,000.15      | 9,335.85       | 47.39           | 58.47  | 99.78             | -1,799.04                    | 1,536.69     | 2,865.75        | 2,760.49         | 105.26             | 27.226            |                                                                      |         |                            |  |
| 10,600.00                                   | 8,835.00       | 11,142.98      | 9,339.06       | 48.91           | 61.96  | 99.84             | -1,799.29                    | 1,679.48     | 2,866.82        | 2,756.61         | 110.20             | 26.014            |                                                                      |         |                            |  |
| 10,700.00                                   | 8,835.00       | 11,249.31      | 9,341.79       | 50.47           | 64.59  | 99.89             | -1,798.72                    | 1,785.78     | 2,867.32        | 2,752.99         | 114.33             | 25.080            |                                                                      |         |                            |  |
| 10,800.00                                   | 8,835.00       | 11,348.99      | 9,344.61       | 52.06           | 67.09  | 99.95             | -1,797.94                    | 1,885.42     | 2,867.62        | 2,749.27         | 118.35             | 24.230            |                                                                      |         |                            |  |
| 10,900.00                                   | 8,835.00       | 11,441.53      | 9,347.13       | 53.68           | 69.44  | 100.00            | -1,797.41                    | 1,977.91     | 2,868.12        | 2,745.87         | 122.25             | 23.462            |                                                                      |         |                            |  |
| 11,000.00                                   | 8,835.00       | 11,531.02      | 9,348.03       | 55.32           | 71.73  | 100.01            | -1,797.45                    | 2,067.40     | 2,868.92        | 2,742.79         | 126.12             | 22.747            |                                                                      |         |                            |  |
| 11,100.00                                   | 8,835.00       | 11,618.96      | 9,348.84       | 57.00           | 74.01  | 100.02            | -1,797.86                    | 2,155.34     | 2,870.13        | 2,740.13         | 130.00             | 22.078            |                                                                      |         |                            |  |
| 11,200.00                                   | 8,835.00       | 11,716.11      | 9,349.77       | 58.70           | 76.53  | 100.04            | -1,798.67                    | 2,252.48     | 2,871.69        | 2,737.53         | 134.16             | 21.405            |                                                                      |         |                            |  |
| 11,300.00                                   | 8,835.00       | 11,828.50      | 9,350.92       | 60.41           | 79.48  | 100.06            | -1,799.30                    | 2,364.86     | 2,873.02        | 2,734.25         | 138.76             | 20.704            |                                                                      |         |                            |  |
| 11,400.00                                   | 8,835.00       | 11,951.13      | 9,352.32       | 62.15           | 82.72  | 100.08            | -1,799.23                    | 2,487.48     | 2,873.75        | 2,730.08         | 143.67             | 20.002            |                                                                      |         |                            |  |
| 11,500.00                                   | 8,835.00       | 12,055.52      | 9,354.13       | 63.91           | 85.49  | 100.12            | -1,798.51                    | 2,591.85     | 2,873.96        | 2,725.84         | 148.12             | 19.402            |                                                                      |         |                            |  |
| 11,600.00                                   | 8,835.00       | 12,156.27      | 9,356.70       | 65.69           | 88.17  | 100.17            | -1,797.63                    | 2,692.57     | 2,874.14        | 2,721.63         | 152.50             | 18.846            |                                                                      |         |                            |  |
| 11,700.00                                   | 8,835.00       | 12,305.09      | 9,361.26       | 67.47           | 92.16  | 100.26            | -1,795.12                    | 2,841.29     | 2,873.71        | 2,715.55         | 158.16             | 18.170            |                                                                      |         |                            |  |
| 11,800.00                                   | 8,835.00       | 12,471.46      | 9,365.50       | 69.28           | 96.63  | 100.37            | -1,788.44                    | 3,007.47     | 2,870.67        | 2,706.43         | 164.24             | 17.478            |                                                                      |         |                            |  |
| 11,900.00                                   | 8,835.00       | 12,557.35      | 9,367.39       | 71.09           | 98.95  | 100.42            | -1,784.15                    | 3,093.23     | 2,866.78        | 2,698.47         | 168.31             | 17.032            |                                                                      |         |                            |  |
| 12,000.00                                   | 8,835.00       | 12,622.00      | 9,368.08       | 72.92           | 100.70 | 100.44            | -1,781.95                    | 3,157.84     | 2,864.14        | 2,692.28         | 171.86             | 16.665            |                                                                      |         |                            |  |
| 12,100.00                                   | 8,835.00       | 12,729.53      | 9,368.29       | 74.76           | 103.62 | 100.45            | -1,779.00                    | 3,265.32     | 2,862.08        | 2,685.53         | 176.54             | 16.212            |                                                                      |         |                            |  |
| 12,200.00                                   | 8,835.00       | 12,779.43      | 9,368.23       | 76.61           | 104.98 | 100.45            | -1,778.06                    | 3,315.21     | 2,860.66        | 2,680.93         | 179.73             | 15.917            |                                                                      |         |                            |  |
| 12,251.75                                   | 8,835.00       | 12,812.00      | 9,368.17       | 77.58           | 105.87 | 100.45            | -1,777.80                    | 3,347.79     | 2,860.52        | 2,678.97         | 181.55             | 15.756            |                                                                      |         |                            |  |
| 12,300.00                                   | 8,835.00       | 12,846.81      | 9,368.11       | 78.47           | 106.83 | 100.45            | -1,777.72                    | 3,382.59     | 2,860.67        | 2,677.30         | 183.36             | 15.601            |                                                                      |         |                            |  |
| 12,400.00                                   | 8,835.00       | 12,926.91      | 9,368.19       | 80.34           | 109.02 | 100.45            | -1,777.87                    | 3,462.69     | 2,861.46        | 2,674.11         | 187.35             | 15.273            |                                                                      |         |                            |  |
| 12,500.00                                   | 8,835.00       | 13,002.00      | 9,369.37       | 82.22           | 111.09 | 100.47            | -1,778.43                    | 3,537.77     | 2,863.06        | 2,671.88         | 191.19             | 14.975            |                                                                      |         |                            |  |
| 12,600.00                                   | 8,835.00       | 13,112.56      | 9,372.08       | 84.11           | 114.13 | 100.52            | -1,779.44                    | 3,648.29     | 2,865.00        | 2,668.97         | 196.04             | 14.615            |                                                                      |         |                            |  |
| 12,700.00                                   | 8,835.00       | 13,248.22      | 9,375.18       | 86.00           | 117.87 | 100.57            | -1,779.29                    | 3,783.91     | 2,865.84        | 2,664.25         | 201.59             | 14.216            |                                                                      |         |                            |  |
| 12,800.00                                   | 8,835.00       | 13,333.73      | 9,376.97       | 87.90           | 120.23 | 100.61            | -1,778.87                    | 3,869.41     | 2,866.36        | 2,660.60         | 205.76             | 13.931            |                                                                      |         |                            |  |
| 12,900.00                                   | 8,835.00       | 13,429.17      | 9,379.16       | 89.81           | 122.88 | 100.65            | -1,779.15                    | 3,964.83     | 2,867.65        | 2,657.44         | 210.21             | 13.642            |                                                                      |         |                            |  |
| 13,000.00                                   | 8,835.00       | 13,527.29      | 9,382.14       | 91.72           | 125.60 | 100.71            | -1,778.86                    | 4,062.89     | 2,868.51        | 2,653.77         | 214.74             | 13.358            |                                                                      |         |                            |  |
| 13,100.00                                   | 8,835.00       | 13,639.97      | 9,385.36       | 93.64           | 128.72 | 100.77            | -1,779.04                    | 4,175.53     | 2,869.83        | 2,650.15         | 219.68             | 13.064            |                                                                      |         |                            |  |
| 13,200.00                                   | 8,835.00       | 13,776.23      | 9,388.95       | 95.56           | 132.51 | 100.84            | -1,777.38                    | 4,311.73     | 2,869.64        | 2,644.37         | 225.27             | 12.738            |                                                                      |         |                            |  |
| 13,246.95                                   | 8,835.00       | 13,807.51      | 9,389.47       | 96.47           | 133.38 | 100.85            | -1,777.01                    | 4,343.00     | 2,869.51        | 2,642.50         | 227.01             | 12.640            |                                                                      |         |                            |  |
| 13,300.00                                   | 8,835.00       | 13,842.86      | 9,389.81       | 97.49           | 134.37 | 100.86            | -1,776.84                    | 4,378.35     | 2,869.68        | 2,640.70         | 228.97             | 12.533            |                                                                      |         |                            |  |
| 13,400.00                                   | 8,835.00       | 13,939.20      | 9,389.06       | 99.42           | 137.05 | 100.84            | -1,777.20                    | 4,474.69     | 2,870.47        | 2,636.95         | 233.52             | 12.292            |                                                                      |         |                            |  |
| 13,500.00                                   | 8,835.00       | 14,011.79      | 9,387.72       | 101.36          | 139.08 | 100.81            | -1,777.85                    | 4,547.26     | 2,871.62        | 2,634.21         | 237.41             | 12.096            |                                                                      |         |                            |  |
| 13,600.00                                   | 8,835.00       | 14,104.99      | 9,388.31       | 103.30          | 141.69 | 100.81            | -1,779.15                    | 4,640.45     | 2,873.68        | 2,631.81         | 241.87             | 11.881            |                                                                      |         |                            |  |
| 13,700.00                                   | 8,835.00       | 14,212.10      | 9,390.64       | 105.25          | 144.68 | 100.85            | -1,779.96                    | 4,747.53     | 2,875.40        | 2,628.69         | 246.72             | 11.655            |                                                                      |         |                            |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|---------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 438-MWD+HDGM, 9290-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 13,800.00                                   | 8,835.00            | 14,388.71           | 9,398.58            | 107.20          | 149.62      | 101.01                | -1,777.79                         | 4,923.93   | 2,875.54             | 2,622.10              | 253.43                  | 11.346            |                    |         |
| 13,900.00                                   | 8,835.00            | 14,503.76           | 9,404.73            | 109.15          | 152.83      | 101.14                | -1,774.48                         | 5,038.76   | 2,874.33             | 2,615.92              | 258.41                  | 11.123            |                    |         |
| 14,000.00                                   | 8,835.00            | 14,620.05           | 9,410.28            | 111.10          | 156.07      | 101.26                | -1,770.60                         | 5,154.85   | 2,872.56             | 2,609.14              | 263.42                  | 10.905            |                    |         |
| 14,100.00                                   | 8,835.00            | 14,719.50           | 9,414.44            | 113.06          | 158.85      | 101.36                | -1,767.11                         | 5,254.15   | 2,870.52             | 2,602.51              | 268.01                  | 10.711            |                    |         |
| 14,200.00                                   | 8,835.00            | 14,800.94           | 9,417.27            | 115.03          | 161.13      | 101.42                | -1,764.66                         | 5,335.51   | 2,868.84             | 2,596.69              | 272.15                  | 10.541            |                    |         |
| 14,300.00                                   | 8,835.00            | 14,878.10           | 9,418.16            | 116.99          | 163.30      | 101.44                | -1,763.24                         | 5,412.65   | 2,867.85             | 2,591.65              | 276.20                  | 10.383            |                    |         |
| 14,400.00                                   | 8,835.00            | 14,964.70           | 9,417.54            | 118.96          | 165.74      | 101.43                | -1,762.60                         | 5,499.24   | 2,867.56             | 2,587.03              | 280.53                  | 10.222            |                    |         |
| 14,500.00                                   | 8,835.00            | 15,076.18           | 9,418.66            | 120.93          | 168.87      | 101.45                | -1,761.48                         | 5,610.71   | 2,867.38             | 2,581.85              | 285.53                  | 10.042            |                    |         |
| 14,600.00                                   | 8,835.00            | 15,201.28           | 9,420.73            | 122.90          | 172.39      | 101.50                | -1,759.16                         | 5,735.77   | 2,866.48             | 2,575.60              | 290.87                  | 9.855             |                    |         |
| 14,700.00                                   | 8,835.00            | 15,336.05           | 9,425.34            | 124.88          | 176.18      | 101.61                | -1,754.38                         | 5,870.37   | 2,864.20             | 2,567.81              | 296.39                  | 9.664             |                    |         |
| 14,800.00                                   | 8,835.00            | 15,448.66           | 9,429.61            | 126.86          | 179.34      | 101.71                | -1,749.67                         | 5,982.80   | 2,861.45             | 2,560.13              | 301.32                  | 9.496             |                    |         |
| 14,900.00                                   | 8,835.00            | 15,520.82           | 9,432.04            | 128.84          | 181.36      | 101.76                | -1,746.68                         | 6,054.86   | 2,858.73             | 2,553.47              | 305.26                  | 9.365             |                    |         |
| 15,000.00                                   | 8,835.00            | 15,587.11           | 9,433.38            | 130.82          | 183.23      | 101.80                | -1,745.11                         | 6,121.12   | 2,857.35             | 2,548.32              | 309.03                  | 9.246             |                    |         |
| 15,100.00                                   | 8,835.00            | 15,698.47           | 9,435.02            | 132.80          | 186.37      | 101.83                | -1,743.05                         | 6,232.44   | 2,856.45             | 2,542.43              | 314.02                  | 9.096             |                    |         |
| 15,200.00                                   | 8,835.00            | 15,806.77           | 9,436.38            | 134.79          | 189.43      | 101.87                | -1,740.19                         | 6,340.69   | 2,854.68             | 2,535.76              | 318.92                  | 8.951             |                    |         |
| 15,300.00                                   | 8,835.00            | 15,899.52           | 9,436.02            | 136.78          | 192.04      | 101.87                | -1,738.52                         | 6,433.42   | 2,853.41             | 2,529.96              | 323.45                  | 8.822             |                    |         |
| 15,400.00                                   | 8,835.00            | 15,985.34           | 9,435.48            | 138.76          | 194.47      | 101.86                | -1,736.94                         | 6,519.24   | 2,852.10             | 2,524.31              | 327.79                  | 8.701             |                    |         |
| 15,461.01                                   | 8,835.00            | 16,022.97           | 9,435.52            | 139.98          | 195.53      | 101.86                | -1,736.55                         | 6,556.86   | 2,851.85             | 2,521.83              | 330.02                  | 8.641             |                    |         |
| 15,500.00                                   | 8,835.00            | 16,047.85           | 9,435.66            | 140.76          | 196.24      | 101.86                | -1,736.44                         | 6,581.74   | 2,851.95             | 2,520.50              | 331.45                  | 8.604             |                    |         |
| 15,600.00                                   | 8,835.00            | 16,163.40           | 9,436.44            | 142.75          | 199.51      | 101.88                | -1,735.90                         | 6,697.28   | 2,852.22             | 2,515.60              | 336.62                  | 8.473             |                    |         |
| 15,697.09                                   | 8,835.00            | 16,259.06           | 9,437.25            | 144.68          | 202.21      | 101.90                | -1,734.83                         | 6,792.94   | 2,851.90             | 2,510.74              | 341.15                  | 8.360             |                    |         |
| 15,700.00                                   | 8,835.00            | 16,260.72           | 9,437.27            | 144.74          | 202.26      | 101.90                | -1,734.81                         | 6,794.59   | 2,851.90             | 2,510.64              | 341.25                  | 8.357             |                    |         |
| 15,800.00                                   | 8,835.00            | 16,328.00           | 9,438.62            | 146.74          | 204.17      | 101.92                | -1,734.77                         | 6,861.86   | 2,852.73             | 2,507.72              | 345.01                  | 8.269             |                    |         |
| 15,900.00                                   | 8,835.00            | 16,390.45           | 9,440.58            | 148.73          | 205.94      | 101.96                | -1,735.37                         | 6,924.28   | 2,854.78             | 2,506.22              | 348.55                  | 8.190             |                    |         |
| 16,000.00                                   | 8,835.00            | 16,500.79           | 9,445.37            | 150.73          | 209.06      | 102.04                | -1,736.58                         | 7,034.50   | 2,857.36             | 2,503.84              | 353.52                  | 8.083             |                    |         |
| 16,100.00                                   | 8,835.00            | 16,596.41           | 9,450.46            | 152.73          | 211.77      | 102.14                | -1,737.00                         | 7,129.99   | 2,859.49             | 2,501.48              | 358.01                  | 7.987             |                    |         |
| 16,200.00                                   | 8,835.00            | 16,703.01           | 9,456.69            | 154.73          | 214.79      | 102.26                | -1,737.46                         | 7,236.40   | 2,861.74             | 2,498.92              | 362.82                  | 7.888             |                    |         |
| 16,300.00                                   | 8,835.00            | 16,811.19           | 9,463.43            | 156.73          | 217.85      | 102.39                | -1,737.49                         | 7,344.37   | 2,863.68             | 2,496.03              | 367.65                  | 7.789             |                    |         |
| 16,400.00                                   | 8,835.00            | 16,932.66           | 9,469.29            | 158.74          | 221.29      | 102.50                | -1,737.35                         | 7,465.70   | 2,865.21             | 2,492.30              | 372.90                  | 7.684             |                    |         |
| 16,500.00                                   | 8,835.00            | 17,048.26           | 9,472.96            | 160.74          | 224.57      | 102.57                | -1,736.57                         | 7,581.24   | 2,865.79             | 2,487.78              | 378.01                  | 7.581             |                    |         |
| 16,600.00                                   | 8,835.00            | 17,166.49           | 9,472.10            | 162.74          | 227.92      | 102.55                | -1,736.45                         | 7,699.46   | 2,866.14             | 2,482.84              | 383.30                  | 7.478             |                    |         |
| 16,626.13                                   | 8,835.00            | 17,201.28           | 9,471.06            | 163.27          | 228.91      | 102.53                | -1,736.37                         | 7,734.23   | 2,866.06             | 2,481.26              | 384.81                  | 7.448             |                    |         |
| 16,700.00                                   | 8,835.00            | 17,234.93           | 9,470.53            | 164.75          | 229.87      | 102.52                | -1,736.55                         | 7,767.88   | 2,866.43             | 2,479.26              | 387.17                  | 7.404             |                    |         |
| 16,800.00                                   | 8,835.00            | 17,304.98           | 9,470.32            | 166.76          | 231.86      | 102.51                | -1,737.38                         | 7,837.92   | 2,868.05             | 2,477.04              | 391.01                  | 7.335             |                    |         |
| 16,900.00                                   | 8,835.00            | 17,413.53           | 9,473.55            | 168.77          | 234.94      | 102.56                | -1,738.29                         | 7,946.41   | 2,870.11             | 2,474.15              | 395.95                  | 7.249             |                    |         |
| 17,000.00                                   | 8,835.00            | 17,518.06           | 9,477.32            | 170.77          | 237.91      | 102.63                | -1,738.31                         | 8,050.87   | 2,871.49             | 2,470.74              | 400.75                  | 7.165             |                    |         |
| 17,100.00                                   | 8,835.00            | 17,611.25           | 9,480.15            | 172.78          | 240.56      | 102.69                | -1,738.86                         | 8,144.02   | 2,873.30             | 2,468.08              | 405.22                  | 7.091             |                    |         |
| 17,200.00                                   | 8,835.00            | 17,754.83           | 9,482.86            | 174.79          | 244.64      | 102.73                | -1,739.19                         | 8,287.57   | 2,874.60             | 2,463.39              | 411.21                  | 6.991             |                    |         |
| 17,300.00                                   | 8,835.00            | 17,846.79           | 9,484.29            | 176.81          | 247.26      | 102.76                | -1,738.73                         | 8,379.52   | 2,875.04             | 2,459.35              | 415.68                  | 6.916             |                    |         |
| 17,400.00                                   | 8,835.00            | 17,849.00           | 9,484.32            | 178.82          | 247.32      | 102.76                | -1,738.72                         | 8,381.73   | 2,877.27             | 2,459.93              | 417.34                  | 6.894             |                    |         |
| 17,500.00                                   | 8,835.00            | 17,906.03           | 9,491.05            | 180.83          | 248.86      | 102.89                | -1,738.59                         | 8,438.26   | 2,881.01             | 2,460.70              | 420.31                  | 6.854             |                    |         |
| 17,600.00                                   | 8,835.00            | 18,174.22           | 9,518.83            | 182.84          | 256.29      | 103.42                | -1,738.66                         | 8,702.87   | 2,884.62             | 2,455.16              | 429.47                  | 6.717             |                    |         |
| 17,700.00                                   | 8,835.00            | 18,337.79           | 9,520.68            | 184.86          | 260.93      | 103.47                | -1,734.42                         | 8,866.38   | 2,882.73             | 2,446.93              | 435.80                  | 6.615             |                    |         |
| 17,800.00                                   | 8,835.00            | 18,450.41           | 9,521.89            | 186.87          | 264.12      | 103.51                | -1,730.31                         | 8,978.91   | 2,880.01             | 2,439.22              | 440.78                  | 6.534             |                    |         |
| 17,900.00                                   | 8,835.00            | 18,540.98           | 9,522.79            | 188.89          | 266.69      | 103.54                | -1,726.91                         | 9,069.42   | 2,877.19             | 2,431.95              | 445.24                  | 6.462             |                    |         |
| 18,000.00                                   | 8,835.00            | 18,619.36           | 9,525.09            | 190.91          | 268.92      | 103.60                | -1,724.18                         | 9,147.71   | 2,875.05             | 2,425.71              | 449.34                  | 6.398             |                    |         |
| 18,100.00                                   | 8,835.00            | 18,717.28           | 9,529.47            | 192.92          | 271.69      | 103.70                | -1,720.71                         | 9,245.47   | 2,873.24             | 2,419.38              | 453.86                  | 6.331             |                    |         |
| 18,200.00                                   | 8,835.00            | 18,803.59           | 9,533.98            | 194.94          | 274.14      | 103.79                | -1,717.83                         | 9,331.61   | 2,871.81             | 2,413.74              | 458.07                  | 6.269             |                    |         |
| 18,300.00                                   | 8,835.00            | 18,942.46           | 9,541.96            | 196.96          | 278.06      | 103.97                | -1,711.87                         | 9,470.13   | 2,869.47             | 2,406.00              | 463.48                  | 6.191             |                    |         |
| 18,400.00                                   | 8,835.00            | 19,050.69           | 9,549.04            | 198.98          | 281.12      | 104.13                | -1,706.55                         | 9,578.00   | 2,866.87             | 2,398.76              | 468.11                  | 6.124             |                    |         |
| 18,500.00                                   | 8,835.00            | 19,160.15           | 9,556.96            | 201.00          | 284.20      | 104.31                | -1,700.38                         | 9,686.99   | 2,863.74             | 2,391.02              | 472.73                  | 6.058             |                    |         |
| 18,600.00                                   | 8,835.00            | 19,172.00           | 9,557.83            | 203.02          | 284.54      | 104.33                | -1,699.70                         | 9,698.79   | 2,861.91             | 2,386.78              | 475.13                  | 6.023             |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 336H - ST01 - ST01 |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 0.00 ft |
|-------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|---------|
| Survey Program: 438-MWD+HDGM, 9290-MWD+HDGM                                               |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                 |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                           | Warning |
| Measured Depth<br>(ft)                                                                    | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |         |
| 18,603.10                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 203.08            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,861.91                   | 2,386.72                    | 475.19                        | 6.023                     |         |
| 18,700.00                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 205.04            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,863.55                   | 2,386.81                    | 476.74                        | 6.007                     |         |
| 18,800.00                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 207.06            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,868.68                   | 2,390.90                    | 477.78                        | 6.004 SF                  |         |
| 18,900.00                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 209.08            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,877.27                   | 2,399.02                    | 478.25                        | 6.016                     |         |
| 19,000.00                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 211.10            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,889.30                   | 2,411.14                    | 478.17                        | 6.042                     |         |
| 19,100.00                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 213.12            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,904.73                   | 2,427.19                    | 477.54                        | 6.083                     |         |
| 19,200.00                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 215.15            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,923.50                   | 2,447.11                    | 476.39                        | 6.137                     |         |
| 19,308.27                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 217.34            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,947.51                   | 2,472.93                    | 474.58                        | 6.211                     |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 438-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                         | 0.00                | 13.82               | 13.82               | 0.50            | 0.50        | -176.46               | -1,723.38                         | -106.64    | 1,726.67             |                       |                         |                   |                    |         |
| 100.00                       | 100.00              | 110.43              | 110.42              | 0.52            | 0.53        | -176.46               | -1,723.51                         | -106.51    | 1,726.80             | 1,725.75              | 1.05                    | 1,642.168         |                    |         |
| 200.00                       | 200.00              | 207.03              | 207.03              | 0.70            | 0.61        | -176.47               | -1,723.84                         | -106.20    | 1,727.12             | 1,725.81              | 1.31                    | 1,315.798         |                    |         |
| 300.00                       | 300.00              | 303.64              | 303.63              | 0.99            | 0.72        | -176.49               | -1,724.37                         | -105.69    | 1,727.64             | 1,725.94              | 1.70                    | 1,013.764         |                    |         |
| 400.00                       | 400.00              | 400.24              | 400.23              | 1.31            | 0.84        | -176.52               | -1,725.11                         | -104.99    | 1,728.36             | 1,726.20              | 2.15                    | 803.606           |                    |         |
| 500.00                       | 500.00              | 496.20              | 496.18              | 1.65            | 1.07        | -176.55               | -1,726.05                         | -104.13    | 1,729.28             | 1,726.56              | 2.72                    | 635.911           |                    |         |
| 600.00                       | 600.00              | 595.87              | 595.84              | 1.99            | 1.40        | -176.58               | -1,727.19                         | -103.24    | 1,730.38             | 1,726.99              | 3.39                    | 510.419           |                    |         |
| 700.00                       | 700.00              | 693.41              | 693.37              | 2.34            | 1.73        | -176.60               | -1,728.32                         | -102.62    | 1,731.49             | 1,727.42              | 4.07                    | 425.483           |                    |         |
| 800.00                       | 800.00              | 792.24              | 792.19              | 2.69            | 2.07        | -176.62               | -1,729.58                         | -102.17    | 1,732.74             | 1,727.98              | 4.76                    | 363.894           |                    |         |
| 900.00                       | 900.00              | 894.25              | 894.19              | 3.04            | 2.43        | -176.64               | -1,730.88                         | -101.51    | 1,733.97             | 1,728.49              | 5.47                    | 316.939           |                    |         |
| 1,000.00                     | 1,000.00            | 989.96              | 989.88              | 3.40            | 2.77        | -176.68               | -1,732.21                         | -100.60    | 1,735.30             | 1,729.14              | 6.16                    | 281.618           |                    |         |
| 1,100.00                     | 1,100.00            | 1,112.58            | 1,112.50            | 3.75            | 3.19        | -176.73               | -1,733.31                         | -99.14     | 1,736.14             | 1,729.20              | 6.94                    | 250.077           |                    |         |
| 1,200.00                     | 1,200.00            | 1,232.14            | 1,232.04            | 4.11            | 3.59        | -176.70               | -1,732.57                         | -99.90     | 1,735.54             | 1,727.85              | 7.69                    | 225.604           |                    |         |
| 1,300.00                     | 1,300.00            | 1,343.65            | 1,343.52            | 4.46            | 3.95        | -176.62               | -1,730.92                         | -102.28    | 1,734.19             | 1,725.77              | 8.41                    | 206.129           |                    |         |
| 1,400.00                     | 1,400.00            | 1,443.47            | 1,443.28            | 4.82            | 4.29        | -176.52               | -1,729.04                         | -105.09    | 1,732.47             | 1,723.37              | 9.10                    | 190.312           |                    |         |
| 1,500.00                     | 1,500.00            | 1,532.13            | 1,531.89            | 5.18            | 4.59        | -176.44               | -1,727.71                         | -107.50    | 1,731.15             | 1,721.38              | 9.76                    | 177.358           |                    |         |
| 1,600.00                     | 1,600.00            | 1,630.29            | 1,630.02            | 5.53            | 4.92        | -176.35               | -1,726.61                         | -110.19    | 1,730.20             | 1,719.74              | 10.45                   | 165.516           |                    |         |
| 1,700.00                     | 1,700.00            | 1,732.81            | 1,732.49            | 5.89            | 5.27        | -176.25               | -1,725.44                         | -112.99    | 1,729.24             | 1,718.07              | 11.16                   | 154.903           |                    |         |
| 1,800.00                     | 1,800.00            | 1,837.77            | 1,837.40            | 6.25            | 5.64        | -176.15               | -1,723.98                         | -115.93    | 1,728.02             | 1,716.14              | 11.88                   | 145.412           |                    |         |
| 1,900.00                     | 1,900.00            | 1,936.31            | 1,935.89            | 6.61            | 5.98        | -176.06               | -1,722.45                         | -118.48    | 1,726.65             | 1,714.07              | 12.58                   | 137.213           |                    |         |
| 2,000.00                     | 2,000.00            | 2,029.15            | 2,028.70            | 6.96            | 6.30        | -175.99               | -1,721.35                         | -120.74    | 1,725.64             | 1,712.38              | 13.27                   | 130.081           |                    |         |
| 2,044.39                     | 2,044.39            | 2,071.95            | 2,071.49            | 7.12            | 6.45        | -163.17               | -1,720.94                         | -121.80    | 1,725.46             | 1,711.88              | 13.57                   | 127.110 CC        |                    |         |
| 2,100.00                     | 2,099.99            | 2,126.07            | 2,125.58            | 7.32            | 6.64        | -163.13               | -1,720.47                         | -123.20    | 1,725.74             | 1,711.78              | 13.96                   | 123.592 ES        |                    |         |
| 2,200.00                     | 2,199.96            | 2,225.52            | 2,224.99            | 7.68            | 6.99        | -163.06               | -1,719.66                         | -125.99    | 1,727.64             | 1,712.97              | 14.67                   | 117.761           |                    |         |
| 2,300.00                     | 2,299.86            | 2,327.71            | 2,327.14            | 8.04            | 7.35        | -162.99               | -1,718.74                         | -128.89    | 1,731.13             | 1,715.74              | 15.39                   | 112.495           |                    |         |
| 2,400.00                     | 2,399.68            | 2,431.14            | 2,430.53            | 8.39            | 7.72        | -162.94               | -1,717.66                         | -131.82    | 1,736.13             | 1,720.02              | 16.11                   | 107.760           |                    |         |
| 2,500.00                     | 2,499.37            | 2,533.13            | 2,532.46            | 8.75            | 8.08        | -162.89               | -1,716.36                         | -134.91    | 1,742.59             | 1,725.76              | 16.83                   | 103.543           |                    |         |
| 2,600.00                     | 2,598.90            | 2,629.83            | 2,629.10            | 9.11            | 8.42        | -162.86               | -1,715.14                         | -137.85    | 1,750.73             | 1,733.20              | 17.53                   | 99.869            |                    |         |
| 2,700.00                     | 2,698.26            | 2,725.07            | 2,724.30            | 9.46            | 8.76        | -162.84               | -1,714.19                         | -140.72    | 1,760.78             | 1,742.56              | 18.23                   | 96.609            |                    |         |
| 2,800.00                     | 2,797.40            | 2,829.98            | 2,829.15            | 9.82            | 9.13        | -162.84               | -1,713.11                         | -143.67    | 1,772.44             | 1,753.49              | 18.96                   | 93.502            |                    |         |
| 2,900.00                     | 2,896.30            | 2,928.23            | 2,927.35            | 10.18           | 9.48        | -162.84               | -1,711.94                         | -146.60    | 1,785.63             | 1,765.96              | 19.66                   | 90.809            |                    |         |
| 3,000.00                     | 2,994.93            | 2,999.57            | 2,998.66            | 10.54           | 9.74        | -162.84               | -1,711.72                         | -148.55    | 1,801.28             | 1,781.01              | 20.27                   | 88.854            |                    |         |
| 3,100.00                     | 3,093.26            | 3,083.97            | 3,083.05            | 10.90           | 10.04       | -162.88               | -1,712.49                         | -150.29    | 1,819.75             | 1,798.83              | 20.93                   | 86.962            |                    |         |
| 3,195.07                     | 3,186.42            | 3,173.91            | 3,172.96            | 11.24           | 10.36       | -162.93               | -1,713.70                         | -152.18    | 1,839.25             | 1,817.66              | 21.58                   | 85.216            |                    |         |
| 3,200.00                     | 3,191.25            | 3,178.73            | 3,177.78            | 11.26           | 10.37       | -162.94               | -1,713.77                         | -152.28    | 1,840.30             | 1,818.68              | 21.62                   | 85.126            |                    |         |
| 3,300.00                     | 3,289.08            | 3,264.08            | 3,263.10            | 11.62           | 10.67       | -163.06               | -1,715.16                         | -153.63    | 1,861.85             | 1,839.58              | 22.27                   | 83.604            |                    |         |
| 3,400.00                     | 3,386.91            | 3,346.36            | 3,345.36            | 11.98           | 10.96       | -163.23               | -1,717.31                         | -153.35    | 1,884.24             | 1,861.33              | 22.90                   | 82.264            |                    |         |
| 3,500.00                     | 3,484.74            | 3,475.17            | 3,474.10            | 12.35           | 11.40       | -163.53               | -1,720.83                         | -151.44    | 1,906.85             | 1,883.13              | 23.72                   | 80.395            |                    |         |
| 3,600.00                     | 3,582.58            | 3,594.64            | 3,593.55            | 12.72           | 11.80       | -163.79               | -1,721.68                         | -149.87    | 1,927.36             | 1,902.87              | 24.49                   | 78.687            |                    |         |
| 3,700.00                     | 3,680.41            | 3,685.05            | 3,683.95            | 13.09           | 12.11       | -163.99               | -1,722.15                         | -148.58    | 1,947.72             | 1,922.56              | 25.16                   | 77.406            |                    |         |
| 3,800.00                     | 3,778.24            | 3,780.71            | 3,779.61            | 13.46           | 12.44       | -164.19               | -1,722.80                         | -147.15    | 1,968.26             | 1,942.41              | 25.85                   | 76.133            |                    |         |
| 3,900.00                     | 3,876.08            | 3,876.81            | 3,875.69            | 13.83           | 12.77       | -164.39               | -1,723.54                         | -145.84    | 1,988.92             | 1,962.37              | 26.55                   | 74.924            |                    |         |
| 4,000.00                     | 3,973.91            | 3,975.50            | 3,974.37            | 14.21           | 13.11       | -164.58               | -1,724.28                         | -144.81    | 2,009.59             | 1,982.34              | 27.25                   | 73.742            |                    |         |
| 4,100.00                     | 4,071.74            | 4,073.90            | 4,072.76            | 14.58           | 13.45       | -164.77               | -1,725.02                         | -143.85    | 2,030.29             | 2,002.33              | 27.96                   | 72.619            |                    |         |
| 4,200.00                     | 4,169.57            | 4,175.37            | 4,174.23            | 14.96           | 13.80       | -164.95               | -1,725.52                         | -143.05    | 2,050.77             | 2,022.09              | 28.68                   | 71.510            |                    |         |
| 4,300.00                     | 4,267.41            | 4,265.69            | 4,264.55            | 15.33           | 14.11       | -165.11               | -1,726.16                         | -142.44    | 2,071.47             | 2,042.11              | 29.36                   | 70.566            |                    |         |
| 4,400.00                     | 4,365.24            | 4,363.96            | 4,362.82            | 15.71           | 14.46       | -165.26               | -1,727.01                         | -142.03    | 2,092.35             | 2,062.28              | 30.07                   | 69.591            |                    |         |
| 4,500.00                     | 4,463.07            | 4,465.86            | 4,464.70            | 16.09           | 14.82       | -165.42               | -1,727.68                         | -141.80    | 2,113.05             | 2,082.25              | 30.79                   | 68.618            |                    |         |
| 4,600.00                     | 4,560.90            | 4,563.06            | 4,561.91            | 16.47           | 15.16       | -165.57               | -1,728.30                         | -141.53    | 2,133.74             | 2,102.23              | 31.50                   | 67.729            |                    |         |
| 4,700.00                     | 4,658.74            | 4,660.46            | 4,659.31            | 16.85           | 15.50       | -165.70               | -1,728.89                         | -141.51    | 2,154.42             | 2,122.20              | 32.22                   | 66.874            |                    |         |
| 4,800.00                     | 4,756.57            | 4,756.75            | 4,755.59            | 17.23           | 15.84       | -165.84               | -1,729.56                         | -141.50    | 2,175.19             | 2,142.27              | 32.92                   | 66.066            |                    |         |
| 4,900.00                     | 4,854.40            | 4,856.71            | 4,855.55            | 17.61           | 16.19       | -165.97               | -1,730.23                         | -141.65    | 2,195.96             | 2,162.31              | 33.65                   | 65.260            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 438-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,000.00                     | 4,952.23            | 4,946.34            | 4,945.17            | 17.99           | 16.51       | -166.08               | -1,730.78                         | -141.82    | 2,216.70             | 2,182.37              | 34.33                   | 64.569            |                    |         |
| 5,100.00                     | 5,050.07            | 5,027.50            | 5,026.32            | 18.37           | 16.79       | -166.16               | -1,731.94                         | -142.93    | 2,238.22             | 2,203.25              | 34.98                   | 63.995            |                    |         |
| 5,200.00                     | 5,147.90            | 5,126.70            | 5,125.49            | 18.75           | 17.14       | -166.24               | -1,733.54                         | -144.93    | 2,259.96             | 2,224.27              | 35.70                   | 63.306            |                    |         |
| 5,300.00                     | 5,245.73            | 5,222.43            | 5,221.18            | 19.14           | 17.48       | -166.31               | -1,735.11                         | -147.02    | 2,281.74             | 2,245.33              | 36.41                   | 62.672            |                    |         |
| 5,400.00                     | 5,343.56            | 5,317.54            | 5,316.25            | 19.52           | 17.82       | -166.37               | -1,736.75                         | -149.13    | 2,303.59             | 2,266.47              | 37.11                   | 62.067            |                    |         |
| 5,500.00                     | 5,441.40            | 5,412.21            | 5,410.88            | 19.90           | 18.16       | -166.43               | -1,738.52                         | -151.50    | 2,325.59             | 2,287.77              | 37.82                   | 61.492            |                    |         |
| 5,600.00                     | 5,539.23            | 5,508.86            | 5,507.44            | 20.29           | 18.50       | -166.45               | -1,740.33                         | -155.34    | 2,347.61             | 2,309.07              | 38.53                   | 60.922            |                    |         |
| 5,700.00                     | 5,637.06            | 5,598.02            | 5,596.46            | 20.67           | 18.82       | -166.45               | -1,742.18                         | -159.86    | 2,369.83             | 2,330.62              | 39.22                   | 60.432            |                    |         |
| 5,800.00                     | 5,734.90            | 5,684.85            | 5,683.16            | 21.05           | 19.13       | -166.45               | -1,744.39                         | -164.02    | 2,392.51             | 2,352.62              | 39.89                   | 59.985            |                    |         |
| 5,900.00                     | 5,832.73            | 5,784.75            | 5,782.92            | 21.44           | 19.48       | -166.46               | -1,747.05                         | -168.53    | 2,415.30             | 2,374.68              | 40.62                   | 59.465            |                    |         |
| 6,000.00                     | 5,930.56            | 5,882.76            | 5,880.81            | 21.83           | 19.83       | -166.47               | -1,749.61                         | -172.76    | 2,438.04             | 2,396.70              | 41.34                   | 58.974            |                    |         |
| 6,100.00                     | 6,028.39            | 5,981.82            | 5,979.76            | 22.21           | 20.19       | -166.49               | -1,752.16                         | -176.69    | 2,460.75             | 2,418.68              | 42.07                   | 58.492            |                    |         |
| 6,200.00                     | 6,126.23            | 6,089.81            | 6,087.64            | 22.60           | 20.57       | -166.52               | -1,754.75                         | -180.58    | 2,483.28             | 2,440.44              | 42.84                   | 57.964            |                    |         |
| 6,300.00                     | 6,224.06            | 6,196.24            | 6,193.99            | 22.98           | 20.95       | -166.55               | -1,756.65                         | -184.51    | 2,505.20             | 2,461.60              | 43.61                   | 57.451            |                    |         |
| 6,400.00                     | 6,321.89            | 6,286.22            | 6,283.90            | 23.37           | 21.27       | -166.58               | -1,758.34                         | -187.63    | 2,527.23             | 2,482.93              | 44.29                   | 57.057            |                    |         |
| 6,500.00                     | 6,419.72            | 6,370.98            | 6,368.59            | 23.76           | 21.58       | -166.61               | -1,760.26                         | -190.48    | 2,549.62             | 2,504.67              | 44.96                   | 56.715            |                    |         |
| 6,600.00                     | 6,517.56            | 6,454.17            | 6,451.70            | 24.14           | 21.87       | -166.64               | -1,762.66                         | -193.07    | 2,572.62             | 2,527.01              | 45.61                   | 56.406            |                    |         |
| 6,700.00                     | 6,615.39            | 6,549.24            | 6,546.68            | 24.53           | 22.22       | -166.68               | -1,765.64                         | -195.92    | 2,595.87             | 2,549.54              | 46.32                   | 56.041            |                    |         |
| 6,800.00                     | 6,713.22            | 6,643.03            | 6,640.36            | 24.92           | 22.55       | -166.71               | -1,768.71                         | -199.25    | 2,619.25             | 2,572.22              | 47.03                   | 55.697            |                    |         |
| 6,900.00                     | 6,811.05            | 6,753.43            | 6,750.61            | 25.30           | 22.95       | -166.72               | -1,772.24                         | -203.89    | 2,642.58             | 2,594.77              | 47.82                   | 55.266            |                    |         |
| 7,000.00                     | 6,908.89            | 6,878.42            | 6,875.53            | 25.69           | 23.40       | -166.78               | -1,774.93                         | -206.91    | 2,664.83             | 2,616.16              | 48.67                   | 54.750            |                    |         |
| 7,100.00                     | 7,006.72            | 6,986.12            | 6,983.20            | 26.08           | 23.78       | -166.86               | -1,776.65                         | -208.60    | 2,686.58             | 2,637.14              | 49.45                   | 54.334            |                    |         |
| 7,200.00                     | 7,104.55            | 7,087.18            | 7,084.25            | 26.47           | 24.14       | -166.94               | -1,777.92                         | -209.69    | 2,708.00             | 2,657.81              | 50.19                   | 53.958            |                    |         |
| 7,216.87                     | 7,121.05            | 7,100.95            | 7,098.02            | 26.53           | 24.19       | -166.95               | -1,778.10                         | -209.75    | 2,711.62             | 2,661.33              | 50.30                   | 53.913            |                    |         |
| 7,300.00                     | 7,202.57            | 7,228.78            | 7,225.82            | 26.85           | 24.63       | -167.18               | -1,778.31                         | -207.35    | 2,727.52             | 2,676.42              | 51.10                   | 53.379            |                    |         |
| 7,400.00                     | 7,301.06            | 7,307.87            | 7,304.85            | 27.23           | 24.90       | -167.36               | -1,778.32                         | -204.42    | 2,744.43             | 2,692.71              | 51.72                   | 53.065            |                    |         |
| 7,500.00                     | 7,399.97            | 7,389.51            | 7,386.46            | 27.61           | 25.18       | -167.51               | -1,778.88                         | -202.22    | 2,759.48             | 2,707.13              | 52.35                   | 52.714            |                    |         |
| 7,600.00                     | 7,499.23            | 7,488.36            | 7,485.29            | 27.98           | 25.52       | -167.64               | -1,779.87                         | -200.50    | 2,772.31             | 2,719.26              | 53.05                   | 52.255            |                    |         |
| 7,700.00                     | 7,598.77            | 7,588.97            | 7,585.89            | 28.34           | 25.87       | -167.74               | -1,780.87                         | -199.41    | 2,782.59             | 2,728.83              | 53.77                   | 51.754            |                    |         |
| 7,800.00                     | 7,698.53            | 7,688.65            | 7,685.56            | 28.70           | 26.22       | -167.80               | -1,781.83                         | -199.10    | 2,790.30             | 2,735.82              | 54.47                   | 51.224            |                    |         |
| 7,900.00                     | 7,798.44            | 7,780.76            | 7,777.66            | 29.05           | 26.54       | -167.84               | -1,782.79                         | -198.90    | 2,795.53             | 2,740.39              | 55.14                   | 50.699            |                    |         |
| 8,000.00                     | 7,898.42            | 7,853.31            | 7,850.21            | 29.39           | 26.80       | -167.86               | -1,784.05                         | -198.65    | 2,798.90             | 2,743.20              | 55.71                   | 50.243            |                    |         |
| 8,013.58                     | 7,912.00            | 7,864.00            | 7,860.89            | 29.43           | 26.84       | 179.36                | -1,784.30                         | -198.61    | 2,799.24             | 2,743.45              | 55.79                   | 50.177            |                    |         |
| 8,100.00                     | 7,998.42            | 7,990.80            | 7,987.67            | 29.73           | 27.28       | 179.32                | -1,785.92                         | -196.81    | 2,800.23             | 2,743.65              | 56.58                   | 49.495            |                    |         |
| 8,200.00                     | 8,098.42            | 8,076.80            | 8,073.64            | 30.07           | 27.57       | 179.29                | -1,787.00                         | -195.38    | 2,801.48             | 2,744.29              | 57.20                   | 48.977            |                    |         |
| 8,300.00                     | 8,198.42            | 8,193.24            | 8,190.04            | 30.41           | 27.98       | 179.23                | -1,788.21                         | -192.43    | 2,802.55             | 2,744.59              | 57.96                   | 48.349            |                    |         |
| 8,363.62                     | 8,262.04            | 8,256.46            | 8,253.25            | 30.62           | 28.19       | 179.21                | -1,788.65                         | -191.29    | 2,803.01             | 2,744.61              | 58.40                   | 47.996            |                    |         |
| 8,400.00                     | 8,298.40            | 8,282.10            | 8,278.89            | 30.75           | 28.28       | 89.53                 | -1,788.90                         | -191.01    | 2,803.37             | 2,744.77              | 58.60                   | 47.839            |                    |         |
| 8,450.00                     | 8,348.10            | 8,317.16            | 8,313.94            | 30.91           | 28.41       | 89.53                 | -1,789.42                         | -190.79    | 2,804.06             | 2,745.20              | 58.87                   | 47.634            |                    |         |
| 8,500.00                     | 8,397.14            | 8,357.28            | 8,354.06            | 31.07           | 28.55       | 89.60                 | -1,790.20                         | -190.75    | 2,804.98             | 2,745.82              | 59.16                   | 47.414            |                    |         |
| 8,550.00                     | 8,445.15            | 8,403.86            | 8,400.63            | 31.23           | 28.71       | 89.76                 | -1,791.17                         | -190.84    | 2,805.98             | 2,746.49              | 59.48                   | 47.173            |                    |         |
| 8,600.00                     | 8,491.77            | 8,448.47            | 8,445.22            | 31.38           | 28.87       | 89.99                 | -1,792.11                         | -191.05    | 2,807.08             | 2,747.28              | 59.80                   | 46.943            |                    |         |
| 8,650.00                     | 8,536.65            | 8,490.40            | 8,487.15            | 31.52           | 29.02       | 90.24                 | -1,793.04                         | -191.37    | 2,808.36             | 2,748.26              | 60.10                   | 46.728            |                    |         |
| 8,700.00                     | 8,579.43            | 8,530.20            | 8,526.93            | 31.66           | 29.16       | 90.51                 | -1,793.96                         | -191.81    | 2,809.92             | 2,749.52              | 60.40                   | 46.526            |                    |         |
| 8,750.00                     | 8,619.80            | 8,565.24            | 8,561.95            | 31.80           | 29.29       | 90.74                 | -1,794.82                         | -192.18    | 2,811.86             | 2,751.19              | 60.67                   | 46.346            |                    |         |
| 8,800.00                     | 8,657.44            | 8,598.16            | 8,594.86            | 31.93           | 29.41       | 90.95                 | -1,795.68                         | -192.43    | 2,814.27             | 2,753.32              | 60.94                   | 46.179            |                    |         |
| 8,850.00                     | 8,692.08            | 8,623.00            | 8,619.69            | 32.06           | 29.50       | 91.01                 | -1,796.37                         | -192.55    | 2,817.24             | 2,756.05              | 61.18                   | 46.046            |                    |         |
| 8,900.00                     | 8,723.44            | 8,650.59            | 8,647.27            | 32.19           | 29.59       | 91.09                 | -1,797.20                         | -192.67    | 2,820.86             | 2,759.41              | 61.45                   | 45.904            |                    |         |
| 8,950.00                     | 8,751.29            | 8,670.88            | 8,667.55            | 32.34           | 29.67       | 91.99                 | -1,797.87                         | -192.78    | 2,825.22             | 2,763.52              | 61.70                   | 45.792            |                    |         |
| 9,000.00                     | 8,775.42            | 8,688.38            | 8,685.04            | 32.50           | 29.73       | 90.79                 | -1,798.49                         | -192.89    | 2,830.36             | 2,768.42              | 61.95                   | 45.691            |                    |         |
| 9,050.00                     | 8,795.64            | 8,702.95            | 8,699.60            | 32.67           | 29.78       | 90.46                 | -1,799.04                         | -192.99    | 2,836.31             | 2,774.11              | 62.20                   | 45.600            |                    |         |
| 9,100.00                     | 8,811.80            | 8,717.00            | 8,713.64            | 32.87           | 29.83       | 90.05                 | -1,799.59                         | -193.10    | 2,843.08             | 2,780.60              | 62.47                   | 45.509            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 438-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,150.00                     | 8,823.77            | 8,717.00            | 8,713.64            | 33.10           | 29.83       | 89.28                 | -1,799.59                         | -193.10    | 2,850.66             | 2,787.97              | 62.69                   | 45.471            |                    |         |
| 9,200.00                     | 8,831.47            | 8,727.94            | 8,724.57            | 33.34           | 29.87       | 88.65                 | -1,800.03                         | -193.19    | 2,859.02             | 2,796.03              | 62.99                   | 45.389            |                    |         |
| 9,250.00                     | 8,834.84            | 8,730.02            | 8,726.64            | 33.60           | 29.88       | 87.77                 | -1,800.12                         | -193.20    | 2,868.12             | 2,804.86              | 63.25                   | 45.343            |                    |         |
| 9,263.62                     | 8,835.00            | 8,730.05            | 8,726.67            | 33.67           | 29.88       | 87.51                 | -1,800.12                         | -193.20    | 2,870.72             | 2,807.39              | 63.33                   | 45.332            |                    |         |
| 9,300.00                     | 8,835.00            | 8,729.82            | 8,726.45            | 33.88           | 29.88       | 87.50                 | -1,800.11                         | -193.20    | 2,877.94             | 2,814.42              | 63.52                   | 45.306            |                    |         |
| 9,400.00                     | 8,835.00            | 8,729.22            | 8,725.84            | 34.53           | 29.88       | 87.49                 | -1,800.09                         | -193.20    | 2,900.07             | 2,835.95              | 64.12                   | 45.225            |                    |         |
| 9,500.00                     | 8,835.00            | 8,728.61            | 8,725.24            | 35.30           | 29.87       | 87.48                 | -1,800.06                         | -193.19    | 2,925.45             | 2,860.65              | 64.80                   | 45.146            |                    |         |
| 9,600.00                     | 8,835.00            | 8,728.01            | 8,724.64            | 36.17           | 29.87       | 87.46                 | -1,800.04                         | -193.19    | 2,954.00             | 2,888.47              | 65.54                   | 45.074            |                    |         |
| 9,700.00                     | 8,835.00            | 8,727.42            | 8,724.05            | 37.13           | 29.87       | 87.45                 | -1,800.01                         | -193.18    | 2,985.63             | 2,919.31              | 66.32                   | 45.018            |                    |         |
| 9,800.00                     | 8,835.00            | 8,726.83            | 8,723.45            | 38.18           | 29.87       | 87.44                 | -1,799.99                         | -193.18    | 3,020.24             | 2,953.10              | 67.14                   | 44.983            |                    |         |
| 9,900.00                     | 8,835.00            | 8,726.24            | 8,722.87            | 39.31           | 29.87       | 87.43                 | -1,799.96                         | -193.17    | 3,057.73             | 2,989.74              | 67.99                   | 44.975 SF         |                    |         |
| 10,000.00                    | 8,835.00            | 8,725.65            | 8,722.28            | 40.51           | 29.86       | 87.42                 | -1,799.94                         | -193.17    | 3,097.99             | 3,029.15              | 68.85                   | 44.997            |                    |         |
| 10,100.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 41.78           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,140.94             | 3,071.27              | 69.68                   | 45.079            |                    |         |
| 10,200.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 43.10           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,186.43             | 3,115.89              | 70.55                   | 45.166            |                    |         |
| 10,300.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 44.49           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,234.38             | 3,162.96              | 71.42                   | 45.290            |                    |         |
| 10,400.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 45.92           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,284.67             | 3,212.40              | 72.27                   | 45.449            |                    |         |
| 10,500.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 47.39           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,337.20             | 3,264.09              | 73.11                   | 45.646            |                    |         |
| 10,600.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 48.91           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,391.86             | 3,317.93              | 73.93                   | 45.879            |                    |         |
| 10,700.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 50.47           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,448.56             | 3,373.83              | 74.73                   | 46.147            |                    |         |
| 10,800.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 52.06           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,507.19             | 3,431.69              | 75.51                   | 46.449            |                    |         |
| 10,900.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 53.68           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,567.67             | 3,491.41              | 76.26                   | 46.785            |                    |         |
| 11,000.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 55.32           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,629.89             | 3,552.91              | 76.98                   | 47.153            |                    |         |
| 11,100.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 57.00           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,693.77             | 3,616.09              | 77.68                   | 47.551            |                    |         |
| 11,200.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 58.70           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,759.22             | 3,680.87              | 78.35                   | 47.978            |                    |         |
| 11,300.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 60.41           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,826.17             | 3,747.18              | 79.00                   | 48.433            |                    |         |
| 11,400.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 62.15           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,894.54             | 3,814.92              | 79.62                   | 48.915            |                    |         |
| 11,500.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 63.91           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,964.25             | 3,884.04              | 80.21                   | 49.421            |                    |         |
| 11,600.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 65.69           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,035.24             | 3,954.45              | 80.78                   | 49.951            |                    |         |
| 11,700.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 67.47           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,107.43             | 4,026.10              | 81.33                   | 50.503            |                    |         |
| 11,800.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 69.28           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,180.77             | 4,098.91              | 81.85                   | 51.077            |                    |         |
| 11,900.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 71.09           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,255.19             | 4,172.84              | 82.35                   | 51.670            |                    |         |
| 12,000.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 72.92           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,330.65             | 4,247.81              | 82.83                   | 52.282            |                    |         |
| 12,100.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 74.76           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,407.08             | 4,323.79              | 83.29                   | 52.913            |                    |         |
| 12,200.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 76.61           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,484.44             | 4,400.71              | 83.73                   | 53.559            |                    |         |
| 12,300.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 78.47           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,562.68             | 4,478.53              | 84.15                   | 54.222            |                    |         |
| 12,400.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 80.34           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,641.75             | 4,557.20              | 84.55                   | 54.900            |                    |         |
| 12,500.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 82.22           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,721.62             | 4,636.69              | 84.93                   | 55.592            |                    |         |
| 12,600.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 84.11           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,802.24             | 4,716.94              | 85.30                   | 56.297            |                    |         |
| 12,700.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 86.00           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,883.58             | 4,797.93              | 85.66                   | 57.014            |                    |         |
| 12,800.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 87.90           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,965.60             | 4,879.61              | 85.99                   | 57.744            |                    |         |
| 12,900.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 89.81           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,048.27             | 4,961.96              | 86.32                   | 58.485            |                    |         |
| 13,000.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 91.72           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,131.56             | 5,044.93              | 86.63                   | 59.236            |                    |         |
| 13,100.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 93.64           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,215.43             | 5,128.51              | 86.93                   | 59.997            |                    |         |
| 13,200.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 95.56           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,299.87             | 5,212.65              | 87.21                   | 60.768            |                    |         |
| 13,300.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 97.49           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,384.83             | 5,297.34              | 87.49                   | 61.548            |                    |         |
| 13,400.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 99.42           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,470.31             | 5,382.55              | 87.76                   | 62.336            |                    |         |
| 13,500.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 101.36          | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,556.27             | 5,468.26              | 88.01                   | 63.132            |                    |         |
| 13,600.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 103.30          | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,642.69             | 5,554.43              | 88.26                   | 63.935            |                    |         |
| 13,700.00                    | 8,835.00            | 8,705.95            | 8,702.59            | 105.25          | 29.79       | 87.01                 | -1,799.15                         | -193.01    | 5,729.54             | 5,641.09              | 88.44                   | 64.782            |                    |         |
| 13,800.00                    | 8,835.00            | 8,705.47            | 8,702.11            | 107.20          | 29.79       | 87.01                 | -1,799.13                         | -193.01    | 5,816.82             | 5,728.15              | 88.67                   | 65.601            |                    |         |
| 13,900.00                    | 8,835.00            | 8,704.99            | 8,701.63            | 109.15          | 29.79       | 87.00                 | -1,799.11                         | -193.01    | 5,904.51             | 5,815.62              | 88.89                   | 66.427            |                    |         |
| 14,000.00                    | 8,835.00            | 8,704.51            | 8,701.15            | 111.10          | 29.79       | 86.99                 | -1,799.10                         | -193.00    | 5,992.58             | 5,903.49              | 89.10                   | 67.259            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 438-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 14,100.00                    | 8,835.00            | 8,704.03            | 8,700.68            | 113.06          | 29.79       | 86.98                 | -1,799.08                         | -193.00    | 6,081.03             | 5,991.73              | 89.30                   | 68.096            |                    |         |
| 14,200.00                    | 8,835.00            | 8,703.56            | 8,700.21            | 115.03          | 29.78       | 86.97                 | -1,799.06                         | -193.00    | 6,169.82             | 6,080.33              | 89.50                   | 68.939            |                    |         |
| 14,300.00                    | 8,835.00            | 8,703.09            | 8,699.74            | 116.99          | 29.78       | 86.96                 | -1,799.04                         | -192.99    | 6,258.96             | 6,169.27              | 89.69                   | 69.787            |                    |         |
| 14,400.00                    | 8,835.00            | 8,702.62            | 8,699.27            | 118.96          | 29.78       | 86.95                 | -1,799.02                         | -192.99    | 6,348.41             | 6,258.54              | 89.87                   | 70.640            |                    |         |
| 14,500.00                    | 8,835.00            | 8,702.16            | 8,698.81            | 120.93          | 29.78       | 86.94                 | -1,799.01                         | -192.99    | 6,438.18             | 6,348.13              | 90.05                   | 71.497            |                    |         |
| 14,600.00                    | 8,835.00            | 8,701.69            | 8,698.34            | 122.90          | 29.78       | 86.93                 | -1,798.99                         | -192.98    | 6,528.25             | 6,438.03              | 90.22                   | 72.359            |                    |         |
| 14,700.00                    | 8,835.00            | 8,701.23            | 8,697.88            | 124.88          | 29.78       | 86.92                 | -1,798.97                         | -192.98    | 6,618.60             | 6,528.21              | 90.39                   | 73.225            |                    |         |
| 14,800.00                    | 8,835.00            | 8,700.78            | 8,697.43            | 126.86          | 29.77       | 86.91                 | -1,798.95                         | -192.98    | 6,709.22             | 6,618.67              | 90.55                   | 74.095            |                    |         |
| 14,900.00                    | 8,835.00            | 8,700.32            | 8,696.97            | 128.84          | 29.77       | 86.90                 | -1,798.94                         | -192.97    | 6,800.11             | 6,709.40              | 90.71                   | 74.968            |                    |         |
| 15,000.00                    | 8,835.00            | 8,699.87            | 8,696.52            | 130.82          | 29.77       | 86.89                 | -1,798.92                         | -192.97    | 6,891.24             | 6,800.38              | 90.86                   | 75.845            |                    |         |
| 15,100.00                    | 8,835.00            | 8,699.42            | 8,696.07            | 132.80          | 29.77       | 86.88                 | -1,798.90                         | -192.97    | 6,982.63             | 6,891.62              | 91.01                   | 76.725            |                    |         |
| 15,200.00                    | 8,835.00            | 8,698.97            | 8,695.62            | 134.79          | 29.77       | 86.87                 | -1,798.88                         | -192.96    | 7,074.24             | 6,983.09              | 91.15                   | 77.609            |                    |         |
| 15,300.00                    | 8,835.00            | 8,698.53            | 8,695.18            | 136.78          | 29.77       | 86.86                 | -1,798.87                         | -192.96    | 7,166.08             | 7,074.79              | 91.29                   | 78.495            |                    |         |
| 15,400.00                    | 8,835.00            | 8,698.08            | 8,694.73            | 138.76          | 29.76       | 86.85                 | -1,798.85                         | -192.96    | 7,258.13             | 7,166.70              | 91.43                   | 79.384            |                    |         |
| 15,500.00                    | 8,835.00            | 8,697.64            | 8,694.29            | 140.76          | 29.76       | 86.85                 | -1,798.83                         | -192.95    | 7,350.40             | 7,258.83              | 91.57                   | 80.275            |                    |         |
| 15,600.00                    | 8,835.00            | 8,697.20            | 8,693.85            | 142.75          | 29.76       | 86.84                 | -1,798.82                         | -192.95    | 7,442.86             | 7,351.16              | 91.70                   | 81.169            |                    |         |
| 15,700.00                    | 8,835.00            | 8,696.77            | 8,693.42            | 144.74          | 29.76       | 86.83                 | -1,798.80                         | -192.95    | 7,535.51             | 7,443.69              | 91.82                   | 82.065            |                    |         |
| 15,800.00                    | 8,835.00            | 8,696.33            | 8,692.98            | 146.74          | 29.76       | 86.82                 | -1,798.79                         | -192.94    | 7,628.35             | 7,536.40              | 91.95                   | 82.964            |                    |         |
| 15,900.00                    | 8,835.00            | 8,695.90            | 8,692.55            | 148.73          | 29.76       | 86.81                 | -1,798.77                         | -192.94    | 7,721.37             | 7,629.30              | 92.07                   | 83.864            |                    |         |
| 16,000.00                    | 8,835.00            | 8,695.47            | 8,692.12            | 150.73          | 29.76       | 86.80                 | -1,798.75                         | -192.94    | 7,814.56             | 7,722.37              | 92.19                   | 84.767            |                    |         |
| 16,100.00                    | 8,835.00            | 8,695.04            | 8,691.70            | 152.73          | 29.75       | 86.79                 | -1,798.74                         | -192.94    | 7,907.92             | 7,815.61              | 92.31                   | 85.671            |                    |         |
| 16,200.00                    | 8,835.00            | 8,694.62            | 8,691.27            | 154.73          | 29.75       | 86.78                 | -1,798.72                         | -192.93    | 8,001.44             | 7,909.02              | 92.42                   | 86.577            |                    |         |
| 16,300.00                    | 8,835.00            | 8,694.20            | 8,690.85            | 156.73          | 29.75       | 86.78                 | -1,798.71                         | -192.93    | 8,095.11             | 8,002.58              | 92.53                   | 87.484            |                    |         |
| 16,400.00                    | 8,835.00            | 8,693.78            | 8,690.43            | 158.74          | 29.75       | 86.77                 | -1,798.69                         | -192.93    | 8,188.93             | 8,096.29              | 92.64                   | 88.393            |                    |         |
| 16,500.00                    | 8,835.00            | 8,693.36            | 8,690.01            | 160.74          | 29.75       | 86.76                 | -1,798.67                         | -192.92    | 8,282.90             | 8,190.15              | 92.75                   | 89.303            |                    |         |
| 16,600.00                    | 8,835.00            | 8,692.94            | 8,689.59            | 162.74          | 29.75       | 86.75                 | -1,798.66                         | -192.92    | 8,377.00             | 8,284.15              | 92.86                   | 90.214            |                    |         |
| 16,700.00                    | 8,835.00            | 8,692.53            | 8,689.18            | 164.75          | 29.74       | 86.74                 | -1,798.64                         | -192.92    | 8,471.25             | 8,378.28              | 92.96                   | 91.127            |                    |         |
| 16,800.00                    | 8,835.00            | 8,692.11            | 8,688.77            | 166.76          | 29.74       | 86.73                 | -1,798.63                         | -192.92    | 8,565.62             | 8,472.55              | 93.06                   | 92.041            |                    |         |
| 16,900.00                    | 8,835.00            | 8,691.70            | 8,688.36            | 168.77          | 29.74       | 86.73                 | -1,798.61                         | -192.91    | 8,660.12             | 8,566.95              | 93.16                   | 92.955            |                    |         |
| 17,000.00                    | 8,835.00            | 8,691.30            | 8,687.95            | 170.77          | 29.74       | 86.72                 | -1,798.60                         | -192.91    | 8,754.74             | 8,661.47              | 93.26                   | 93.871            |                    |         |
| 17,100.00                    | 8,835.00            | 8,690.89            | 8,687.55            | 172.78          | 29.74       | 86.71                 | -1,798.58                         | -192.91    | 8,849.48             | 8,756.11              | 93.36                   | 94.787            |                    |         |
| 17,200.00                    | 8,835.00            | 8,690.49            | 8,687.14            | 174.79          | 29.74       | 86.70                 | -1,798.57                         | -192.90    | 8,944.33             | 8,850.87              | 93.46                   | 95.705            |                    |         |
| 17,300.00                    | 8,835.00            | 8,690.08            | 8,686.74            | 176.81          | 29.74       | 86.69                 | -1,798.55                         | -192.90    | 9,039.29             | 8,945.74              | 93.55                   | 96.622            |                    |         |
| 17,400.00                    | 8,835.00            | 8,689.68            | 8,686.34            | 178.82          | 29.73       | 86.68                 | -1,798.54                         | -192.90    | 9,134.36             | 9,040.72              | 93.65                   | 97.541            |                    |         |
| 17,500.00                    | 8,835.00            | 8,689.29            | 8,685.94            | 180.83          | 29.73       | 86.68                 | -1,798.52                         | -192.90    | 9,229.54             | 9,135.80              | 93.74                   | 98.460            |                    |         |
| 17,600.00                    | 8,835.00            | 8,688.89            | 8,685.55            | 182.84          | 29.73       | 86.67                 | -1,798.51                         | -192.89    | 9,324.82             | 9,230.99              | 93.83                   | 99.379            |                    |         |
| 17,700.00                    | 8,835.00            | 8,688.50            | 8,685.15            | 184.86          | 29.73       | 86.66                 | -1,798.50                         | -192.89    | 9,420.19             | 9,326.27              | 93.92                   | 100.299           |                    |         |
| 17,800.00                    | 8,835.00            | 8,688.10            | 8,684.76            | 186.87          | 29.73       | 86.65                 | -1,798.48                         | -192.89    | 9,515.66             | 9,421.65              | 94.01                   | 101.219           |                    |         |
| 17,900.00                    | 8,835.00            | 8,687.71            | 8,684.37            | 188.89          | 29.73       | 86.64                 | -1,798.47                         | -192.89    | 9,611.22             | 9,517.12              | 94.10                   | 102.140           |                    |         |
| 18,000.00                    | 8,835.00            | 8,687.33            | 8,683.98            | 190.91          | 29.73       | 86.64                 | -1,798.45                         | -192.88    | 9,706.87             | 9,612.69              | 94.19                   | 103.060           |                    |         |
| 18,100.00                    | 8,835.00            | 8,686.94            | 8,683.60            | 192.92          | 29.72       | 86.63                 | -1,798.44                         | -192.88    | 9,802.61             | 9,708.34              | 94.27                   | 103.981           |                    |         |
| 18,200.00                    | 8,835.00            | 8,686.56            | 8,683.21            | 194.94          | 29.72       | 86.62                 | -1,798.42                         | -192.88    | 9,898.43             | 9,804.08              | 94.36                   | 104.902           |                    |         |
| 18,300.00                    | 8,835.00            | 8,686.17            | 8,682.83            | 196.96          | 29.72       | 86.61                 | -1,798.41                         | -192.88    | 9,994.34             | 9,899.89              | 94.44                   | 105.823           |                    |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                       | 0.00                | 10.80               | 10.80               | 0.50            | 0.50        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             |                       |                         |                   |                    |         |
| 100.00                     | 100.00              | 110.80              | 110.80              | 0.52            | 0.53        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,527.64              | 1.05                    | 1,460.224         |                    |         |
| 200.00                     | 200.00              | 210.80              | 210.80              | 0.70            | 0.73        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,527.25              | 1.43                    | 1,067.588         |                    |         |
| 300.00                     | 300.00              | 310.80              | 310.80              | 0.99            | 1.02        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,526.68              | 2.01                    | 761.206           |                    |         |
| 400.00                     | 400.00              | 410.80              | 410.80              | 1.31            | 1.34        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,526.03              | 2.65                    | 575.985           |                    |         |
| 500.00                     | 500.00              | 510.80              | 510.80              | 1.65            | 1.68        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,525.36              | 3.33                    | 459.189           |                    |         |
| 600.00                     | 600.00              | 610.80              | 610.80              | 1.99            | 2.03        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,524.67              | 4.02                    | 380.393           |                    |         |
| 700.00                     | 700.00              | 710.80              | 710.80              | 2.34            | 2.38        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,523.97              | 4.72                    | 324.117           |                    |         |
| 800.00                     | 800.00              | 810.80              | 810.80              | 2.69            | 2.73        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,523.27              | 5.42                    | 282.085           |                    |         |
| 900.00                     | 900.00              | 910.80              | 910.80              | 3.04            | 3.08        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,522.56              | 6.13                    | 249.569           |                    |         |
| 1,000.00                   | 1,000.00            | 1,010.80            | 1,010.80            | 3.40            | 3.44        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,521.85              | 6.83                    | 223.701           |                    |         |
| 1,100.00                   | 1,100.00            | 1,110.80            | 1,110.80            | 3.75            | 3.79        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,521.14              | 7.54                    | 202.647           |                    |         |
| 1,200.00                   | 1,200.00            | 1,210.80            | 1,210.80            | 4.11            | 4.15        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,520.43              | 8.25                    | 185.189           |                    |         |
| 1,300.00                   | 1,300.00            | 1,310.80            | 1,310.80            | 4.46            | 4.50        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,519.72              | 8.97                    | 170.483           |                    |         |
| 1,400.00                   | 1,400.00            | 1,410.80            | 1,410.80            | 4.82            | 4.86        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,519.01              | 9.68                    | 157.928           |                    |         |
| 1,500.00                   | 1,500.00            | 1,510.80            | 1,510.80            | 5.18            | 5.22        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,518.29              | 10.39                   | 147.088           |                    |         |
| 1,600.00                   | 1,600.00            | 1,610.80            | 1,610.80            | 5.53            | 5.57        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,517.58              | 11.11                   | 137.635           |                    |         |
| 1,700.00                   | 1,700.00            | 1,710.80            | 1,710.80            | 5.89            | 5.93        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,516.87              | 11.82                   | 129.319           |                    |         |
| 1,800.00                   | 1,800.00            | 1,810.80            | 1,810.80            | 6.25            | 6.29        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,516.15              | 12.54                   | 121.948           |                    |         |
| 1,900.00                   | 1,900.00            | 1,910.80            | 1,910.80            | 6.61            | 6.64        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,515.44              | 13.25                   | 115.370           |                    |         |
| 2,000.00                   | 2,000.00            | 2,010.80            | 2,010.80            | 6.96            | 7.00        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,514.72              | 13.97                   | 109.463           |                    |         |
| 2,100.00                   | 2,099.99            | 2,110.79            | 2,110.79            | 7.32            | 7.36        | 12.66                 | 1,528.68                          | -3.38      | 1,527.84             | 1,513.16              | 14.68                   | 104.074           |                    |         |
| 2,200.00                   | 2,199.96            | 2,210.76            | 2,210.76            | 7.68            | 7.72        | 12.69                 | 1,528.68                          | -3.38      | 1,525.28             | 1,509.89              | 15.40                   | 99.075            |                    |         |
| 2,300.00                   | 2,299.86            | 2,310.66            | 2,310.66            | 8.04            | 8.07        | 12.73                 | 1,528.68                          | -3.38      | 1,521.03             | 1,504.92              | 16.11                   | 94.414            |                    |         |
| 2,400.00                   | 2,399.68            | 2,398.15            | 2,398.15            | 8.39            | 8.39        | 12.79                 | 1,528.68                          | -3.43      | 1,515.32             | 1,498.54              | 16.78                   | 90.305            |                    |         |
| 2,500.00                   | 2,499.37            | 2,477.64            | 2,477.63            | 8.75            | 8.67        | 12.84                 | 1,530.06                          | -3.74      | 1,509.15             | 1,491.73              | 17.42                   | 86.639            |                    |         |
| 2,600.00                   | 2,598.90            | 2,557.19            | 2,557.15            | 9.11            | 8.96        | 12.90                 | 1,532.31                          | -4.32      | 1,502.62             | 1,484.57              | 18.06                   | 83.222            |                    |         |
| 2,700.00                   | 2,698.26            | 2,636.80            | 2,636.68            | 9.46            | 9.24        | 12.96                 | 1,535.63                          | -5.19      | 1,495.74             | 1,477.05              | 18.69                   | 80.028            |                    |         |
| 2,800.00                   | 2,797.40            | 2,716.46            | 2,716.21            | 9.82            | 9.53        | 13.02                 | 1,540.02                          | -6.33      | 1,488.50             | 1,469.18              | 19.32                   | 77.033            |                    |         |
| 2,900.00                   | 2,896.30            | 2,796.18            | 2,795.73            | 10.18           | 9.81        | 13.09                 | 1,545.49                          | -7.75      | 1,480.91             | 1,460.96              | 19.95                   | 74.218            |                    |         |
| 3,000.00                   | 2,994.93            | 2,875.98            | 2,875.24            | 10.54           | 10.09       | 13.15                 | 1,552.03                          | -9.45      | 1,472.97             | 1,452.39              | 20.58                   | 71.564            |                    |         |
| 3,100.00                   | 3,093.26            | 2,955.84            | 2,954.71            | 10.90           | 10.38       | 13.22                 | 1,559.65                          | -11.43     | 1,464.68             | 1,443.47              | 21.21                   | 69.056            |                    |         |
| 3,195.07                   | 3,186.42            | 3,031.82            | 3,030.21            | 11.24           | 10.65       | 13.29                 | 1,567.90                          | -13.57     | 1,456.47             | 1,434.66              | 21.81                   | 66.794            |                    |         |
| 3,200.00                   | 3,191.25            | 3,035.77            | 3,034.13            | 11.26           | 10.67       | 13.30                 | 1,568.36                          | -13.69     | 1,456.04             | 1,434.20              | 21.84                   | 66.679            |                    |         |
| 3,300.00                   | 3,289.08            | 3,115.84            | 3,113.56            | 11.62           | 10.95       | 13.34                 | 1,578.15                          | -16.23     | 1,447.98             | 1,425.52              | 22.46                   | 64.465            |                    |         |
| 3,400.00                   | 3,386.91            | 3,196.07            | 3,193.00            | 11.98           | 11.24       | 13.38                 | 1,589.03                          | -19.06     | 1,441.27             | 1,418.18              | 23.09                   | 62.431            |                    |         |
| 3,500.00                   | 3,484.74            | 3,276.45            | 3,272.42            | 12.35           | 11.52       | 13.40                 | 1,601.02                          | -22.18     | 1,435.91             | 1,412.20              | 23.71                   | 60.563            |                    |         |
| 3,600.00                   | 3,582.58            | 3,356.93            | 3,351.75            | 12.72           | 11.81       | 13.42                 | 1,614.10                          | -25.58     | 1,431.90             | 1,407.57              | 24.33                   | 58.848            |                    |         |
| 3,700.00                   | 3,680.41            | 3,445.03            | 3,438.40            | 13.09           | 12.13       | 13.42                 | 1,629.53                          | -29.59     | 1,429.15             | 1,404.15              | 25.00                   | 57.175            |                    |         |
| 3,800.00                   | 3,778.24            | 3,545.00            | 3,536.68            | 13.46           | 12.49       | 13.42                 | 1,647.26                          | -34.20     | 1,426.65             | 1,400.92              | 25.73                   | 55.451            |                    |         |
| 3,900.00                   | 3,876.08            | 3,644.97            | 3,634.95            | 13.83           | 12.85       | 13.42                 | 1,664.99                          | -38.81     | 1,424.15             | 1,397.69              | 26.46                   | 53.817            |                    |         |
| 4,000.00                   | 3,973.91            | 3,744.94            | 3,733.23            | 14.21           | 13.21       | 13.42                 | 1,682.73                          | -43.41     | 1,421.65             | 1,394.45              | 27.20                   | 52.268            |                    |         |
| 4,100.00                   | 4,071.74            | 3,844.90            | 3,831.50            | 14.58           | 13.57       | 13.42                 | 1,700.46                          | -48.02     | 1,419.15             | 1,391.21              | 27.94                   | 50.798            |                    |         |
| 4,200.00                   | 4,169.57            | 3,944.87            | 3,929.78            | 14.96           | 13.94       | 13.42                 | 1,718.19                          | -52.63     | 1,416.65             | 1,387.97              | 28.68                   | 49.400            |                    |         |
| 4,300.00                   | 4,267.41            | 4,044.84            | 4,028.05            | 15.33           | 14.31       | 13.42                 | 1,735.93                          | -57.24     | 1,414.15             | 1,384.73              | 29.42                   | 48.070            |                    |         |
| 4,400.00                   | 4,365.24            | 4,144.81            | 4,126.33            | 15.71           | 14.67       | 13.42                 | 1,753.66                          | -61.85     | 1,411.65             | 1,381.49              | 30.16                   | 46.803            |                    |         |
| 4,500.00                   | 4,463.07            | 4,244.78            | 4,224.60            | 16.09           | 15.04       | 13.42                 | 1,771.40                          | -66.46     | 1,409.15             | 1,378.25              | 30.91                   | 45.595            |                    |         |
| 4,600.00                   | 4,560.90            | 4,344.75            | 4,322.88            | 16.47           | 15.41       | 13.42                 | 1,789.13                          | -71.07     | 1,406.65             | 1,375.00              | 31.65                   | 44.442            |                    |         |
| 4,700.00                   | 4,658.74            | 4,444.72            | 4,421.15            | 16.85           | 15.78       | 13.42                 | 1,806.86                          | -75.68     | 1,404.15             | 1,371.75              | 32.40                   | 43.340            |                    |         |
| 4,800.00                   | 4,756.57            | 4,544.69            | 4,519.43            | 17.23           | 16.15       | 13.42                 | 1,824.60                          | -80.28     | 1,401.65             | 1,368.51              | 33.15                   | 42.287            |                    |         |
| 4,900.00                   | 4,854.40            | 4,644.65            | 4,617.70            | 17.61           | 16.52       | 13.43                 | 1,842.33                          | -84.89     | 1,399.15             | 1,365.26              | 33.89                   | 41.279            |                    |         |
| 5,000.00                   | 4,952.23            | 4,744.62            | 4,715.98            | 17.99           | 16.89       | 13.43                 | 1,860.06                          | -89.50     | 1,396.65             | 1,362.01              | 34.64                   | 40.314            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                   | 5,050.07            | 4,844.59            | 4,814.25            | 18.37           | 17.27       | 13.43                 | 1,877.80                          | -94.11     | 1,394.15             | 1,358.76              | 35.40                   | 39.388            |                    |         |
| 5,200.00                   | 5,147.90            | 4,944.56            | 4,912.53            | 18.75           | 17.64       | 13.43                 | 1,895.53                          | -98.72     | 1,391.65             | 1,355.51              | 36.15                   | 38.500            |                    |         |
| 5,300.00                   | 5,245.73            | 5,044.53            | 5,010.80            | 19.14           | 18.01       | 13.43                 | 1,913.27                          | -103.33    | 1,389.15             | 1,352.26              | 36.90                   | 37.648            |                    |         |
| 5,400.00                   | 5,343.56            | 5,144.50            | 5,109.08            | 19.52           | 18.39       | 13.43                 | 1,931.00                          | -107.94    | 1,386.65             | 1,349.00              | 37.65                   | 36.828            |                    |         |
| 5,500.00                   | 5,441.40            | 5,244.47            | 5,207.35            | 19.90           | 18.76       | 13.43                 | 1,948.73                          | -112.55    | 1,384.15             | 1,345.75              | 38.41                   | 36.041            |                    |         |
| 5,600.00                   | 5,539.23            | 5,344.44            | 5,305.63            | 20.29           | 19.14       | 13.43                 | 1,966.47                          | -117.15    | 1,381.65             | 1,342.49              | 39.16                   | 35.282            |                    |         |
| 5,700.00                   | 5,637.06            | 5,444.40            | 5,403.90            | 20.67           | 19.51       | 13.43                 | 1,984.20                          | -121.76    | 1,379.15             | 1,339.24              | 39.91                   | 34.553            |                    |         |
| 5,800.00                   | 5,734.90            | 5,544.37            | 5,502.18            | 21.05           | 19.89       | 13.43                 | 2,001.94                          | -126.37    | 1,376.66             | 1,335.99              | 40.67                   | 33.849            |                    |         |
| 5,900.00                   | 5,832.73            | 5,644.34            | 5,600.46            | 21.44           | 20.26       | 13.43                 | 2,019.67                          | -130.98    | 1,374.16             | 1,332.73              | 41.43                   | 33.171            |                    |         |
| 6,000.00                   | 5,930.56            | 5,744.31            | 5,698.73            | 21.83           | 20.64       | 13.43                 | 2,037.40                          | -135.59    | 1,371.66             | 1,329.47              | 42.18                   | 32.517            |                    |         |
| 6,100.00                   | 6,028.39            | 5,844.28            | 5,797.01            | 22.21           | 21.02       | 13.43                 | 2,055.14                          | -140.20    | 1,369.16             | 1,326.22              | 42.94                   | 31.885            |                    |         |
| 6,200.00                   | 6,126.23            | 5,944.25            | 5,895.28            | 22.60           | 21.39       | 13.43                 | 2,072.87                          | -144.81    | 1,366.66             | 1,322.96              | 43.70                   | 31.276            |                    |         |
| 6,300.00                   | 6,224.06            | 6,044.22            | 5,993.56            | 22.98           | 21.77       | 13.43                 | 2,090.60                          | -149.42    | 1,364.16             | 1,319.70              | 44.46                   | 30.686            |                    |         |
| 6,400.00                   | 6,321.89            | 6,144.19            | 6,091.83            | 23.37           | 22.15       | 13.43                 | 2,108.34                          | -154.02    | 1,361.66             | 1,316.44              | 45.21                   | 30.116            |                    |         |
| 6,500.00                   | 6,419.72            | 6,244.15            | 6,190.11            | 23.76           | 22.53       | 13.43                 | 2,126.07                          | -158.63    | 1,359.16             | 1,313.18              | 45.97                   | 29.565            |                    |         |
| 6,600.00                   | 6,517.56            | 6,344.12            | 6,288.38            | 24.14           | 22.91       | 13.43                 | 2,143.81                          | -163.24    | 1,356.66             | 1,309.93              | 46.73                   | 29.031            |                    |         |
| 6,700.00                   | 6,615.39            | 6,444.09            | 6,386.66            | 24.53           | 23.28       | 13.43                 | 2,161.54                          | -167.85    | 1,354.16             | 1,306.67              | 47.49                   | 28.514            |                    |         |
| 6,800.00                   | 6,713.22            | 6,544.06            | 6,484.93            | 24.92           | 23.66       | 13.43                 | 2,179.27                          | -172.46    | 1,351.66             | 1,303.41              | 48.25                   | 28.013            |                    |         |
| 6,900.00                   | 6,811.05            | 6,644.03            | 6,583.21            | 25.30           | 24.04       | 13.43                 | 2,197.01                          | -177.07    | 1,349.16             | 1,300.15              | 49.01                   | 27.528            |                    |         |
| 7,000.00                   | 6,908.89            | 6,744.00            | 6,681.48            | 25.69           | 24.42       | 13.43                 | 2,214.74                          | -181.68    | 1,346.66             | 1,296.89              | 49.77                   | 27.057            |                    |         |
| 7,100.00                   | 7,006.72            | 6,843.97            | 6,779.76            | 26.08           | 24.80       | 13.43                 | 2,232.47                          | -186.29    | 1,344.16             | 1,293.63              | 50.53                   | 26.600            |                    |         |
| 7,200.00                   | 7,104.55            | 6,943.94            | 6,878.03            | 26.47           | 25.18       | 13.43                 | 2,250.21                          | -190.90    | 1,341.66             | 1,290.37              | 51.29                   | 26.157            |                    |         |
| 7,216.87                   | 7,121.05            | 6,960.80            | 6,894.61            | 26.53           | 25.24       | 13.43                 | 2,253.20                          | -191.67    | 1,341.24             | 1,289.82              | 51.42                   | 26.083            |                    |         |
| 7,300.00                   | 7,202.57            | 7,043.92            | 6,976.32            | 26.85           | 25.56       | 13.42                 | 2,267.95                          | -195.50    | 1,340.04             | 1,287.99              | 52.05                   | 25.744            |                    |         |
| 7,315.04                   | 7,217.35            | 7,058.96            | 6,991.11            | 26.91           | 25.62       | 13.42                 | 2,270.61                          | -196.20    | 1,340.01             | 1,287.84              | 52.17                   | 25.687 CC         |                    |         |
| 7,400.00                   | 7,301.06            | 7,143.91            | 7,074.62            | 27.23           | 25.94       | 13.39                 | 2,285.68                          | -200.11    | 1,340.93             | 1,288.12              | 52.81                   | 25.392            |                    |         |
| 7,500.00                   | 7,399.97            | 7,243.84            | 7,172.86            | 27.61           | 26.32       | 13.34                 | 2,303.41                          | -204.72    | 1,344.37             | 1,290.81              | 53.56                   | 25.100            |                    |         |
| 7,600.00                   | 7,499.23            | 7,343.64            | 7,270.96            | 27.98           | 26.70       | 13.28                 | 2,321.11                          | -209.32    | 1,350.35             | 1,296.05              | 54.30                   | 24.866            |                    |         |
| 7,700.00                   | 7,598.77            | 7,443.24            | 7,368.87            | 28.34           | 27.08       | 13.20                 | 2,338.78                          | -213.91    | 1,358.88             | 1,303.84              | 55.04                   | 24.688            |                    |         |
| 7,800.00                   | 7,698.53            | 7,558.57            | 7,482.30            | 28.70           | 27.52       | 13.08                 | 2,358.98                          | -219.16    | 1,369.78             | 1,313.92              | 55.86                   | 24.521            |                    |         |
| 7,900.00                   | 7,798.44            | 7,711.08            | 7,633.04            | 29.05           | 28.09       | 12.93                 | 2,381.37                          | -224.98    | 1,380.31             | 1,323.49              | 56.83                   | 24.290            |                    |         |
| 8,000.00                   | 7,898.42            | 7,864.43            | 7,785.42            | 29.39           | 28.65       | 12.80                 | 2,397.99                          | -229.30    | 1,389.54             | 1,331.83              | 57.71                   | 24.077            |                    |         |
| 8,013.58                   | 7,912.00            | 7,885.32            | 7,806.22            | 29.43           | 28.73       | 0.01                  | 2,399.79                          | -229.77    | 1,390.69             | 1,332.86              | 57.83                   | 24.050            |                    |         |
| 8,100.00                   | 7,998.42            | 8,018.62            | 7,939.20            | 29.73           | 29.20       | -0.09                 | 2,408.72                          | -232.09    | 1,396.48             | 1,337.96              | 58.52                   | 23.864            |                    |         |
| 8,200.00                   | 8,098.42            | 8,173.46            | 8,093.95            | 30.07           | 29.75       | -0.14                 | 2,413.45                          | -233.32    | 1,399.54             | 1,340.29              | 59.25                   | 23.623            |                    |         |
| 8,300.00                   | 8,198.42            | 8,288.74            | 8,209.22            | 30.41           | 30.15       | -0.14                 | 2,413.68                          | -233.38    | 1,399.69             | 1,339.75              | 59.93                   | 23.354            |                    |         |
| 8,363.62                   | 8,262.04            | 8,352.35            | 8,272.84            | 30.62           | 30.36       | -0.14                 | 2,413.68                          | -233.38    | 1,399.69             | 1,339.31              | 60.37                   | 23.184            |                    |         |
| 8,400.00                   | 8,298.40            | 8,388.71            | 8,309.20            | 30.75           | 30.49       | -89.84                | 2,413.68                          | -233.38    | 1,399.68             | 1,339.06              | 60.62                   | 23.090            |                    |         |
| 8,439.07                   | 8,337.27            | 8,427.59            | 8,348.07            | 30.87           | 30.62       | -90.00                | 2,413.68                          | -233.38    | 1,399.68             | 1,338.80              | 60.88                   | 22.991            |                    |         |
| 8,450.00                   | 8,348.10            | 8,438.41            | 8,358.90            | 30.91           | 30.66       | -90.06                | 2,413.68                          | -233.38    | 1,399.68             | 1,338.73              | 60.95                   | 22.964            |                    |         |
| 8,500.00                   | 8,397.14            | 8,487.45            | 8,407.94            | 31.07           | 30.83       | -90.45                | 2,413.68                          | -233.38    | 1,399.72             | 1,338.44              | 61.28                   | 22.842            |                    |         |
| 8,550.00                   | 8,445.15            | 8,535.47            | 8,455.95            | 31.23           | 31.00       | -90.97                | 2,413.68                          | -233.38    | 1,399.90             | 1,338.30              | 61.60                   | 22.726            |                    |         |
| 8,600.00                   | 8,491.77            | 8,583.35            | 8,503.83            | 31.38           | 31.16       | -91.63                | 2,413.68                          | -233.13    | 1,400.34             | 1,338.43              | 61.91                   | 22.619            |                    |         |
| 8,650.00                   | 8,536.65            | 8,634.39            | 8,554.72            | 31.52           | 31.33       | -92.34                | 2,413.71                          | -229.37    | 1,401.03             | 1,338.83              | 62.20                   | 22.525            |                    |         |
| 8,700.00                   | 8,579.43            | 8,687.40            | 8,606.99            | 31.66           | 31.50       | -93.05                | 2,413.76                          | -220.68    | 1,401.97             | 1,339.49              | 62.48                   | 22.440            |                    |         |
| 8,750.00                   | 8,619.80            | 8,742.57            | 8,660.30            | 31.80           | 31.68       | -93.75                | 2,413.84                          | -206.56    | 1,403.12             | 1,340.38              | 62.74                   | 22.365            |                    |         |
| 8,800.00                   | 8,657.44            | 8,800.11            | 8,714.18            | 31.93           | 31.86       | -94.44                | 2,413.96                          | -186.43    | 1,404.47             | 1,341.48              | 62.99                   | 22.298            |                    |         |
| 8,850.00                   | 8,692.08            | 8,860.21            | 8,768.01            | 32.06           | 32.04       | -95.12                | 2,414.12                          | -159.76    | 1,405.97             | 1,342.75              | 63.22                   | 22.240            |                    |         |
| 8,900.00                   | 8,723.44            | 8,923.04            | 8,820.97            | 32.19           | 32.22       | -95.77                | 2,414.32                          | -126.01    | 1,407.57             | 1,344.13              | 63.44                   | 22.188            |                    |         |
| 8,950.00                   | 8,751.29            | 8,988.73            | 8,872.04            | 32.34           | 32.40       | -96.40                | 2,414.57                          | -84.76     | 1,409.21             | 1,345.55              | 63.66                   | 22.137            |                    |         |
| 9,000.00                   | 8,775.42            | 9,057.31            | 8,919.95            | 32.50           | 32.59       | -96.98                | 2,414.86                          | -35.75     | 1,410.83             | 1,346.94              | 63.89                   | 22.083            |                    |         |
| 9,050.00                   | 8,795.64            | 9,128.74            | 8,963.26            | 32.67           | 32.80       | -97.50                | 2,415.20                          | 21.00      | 1,412.34             | 1,348.19              | 64.15                   | 22.017            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |        | Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 621H - Wellbore #1 - Permit Plan 1 |         | Offset Site Error: |  | 0.00 ft |
|----------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|--------|--------------------------------------------------------------------------------------|---------|--------------------|--|---------|
| Survey Program: 0-MWD+IFR1 |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |        |                                                                                      |         | Offset Well Error: |  | 0.50 ft |
| Reference                  |                | Offset         |                | Semi Major Axis |        |                   | Distance               |                 |                  |                    |                   |        |                                                                                      | Warning |                    |  |         |
| Measured Depth             | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor |        |                                                                                      |         |                    |  |         |
| (ft)                       | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft)      | (ft)             | (ft)               | (ft)              |        |                                                                                      |         |                    |  |         |
| 9,100.00                   | 8,811.80       | 9,202.84       | 9,000.37       | 32.87           | 33.05  | -97.95            | 2,415.58               | 85.07           | 1,413.67         | 1,349.21           | 64.46             | 21.930 |                                                                                      |         |                    |  |         |
| 9,150.00                   | 8,823.77       | 9,279.25       | 9,029.66       | 33.10           | 33.35  | -98.30            | 2,416.00               | 155.59          | 1,414.76         | 1,349.89           | 64.86             | 21.811 |                                                                                      |         |                    |  |         |
| 9,200.00                   | 8,831.47       | 9,357.49       | 9,049.65       | 33.34           | 33.69  | -98.55            | 2,416.45               | 231.16          | 1,415.52         | 1,350.16           | 65.37             | 21.656 |                                                                                      |         |                    |  |         |
| 9,250.00                   | 8,834.84       | 9,436.90       | 9,059.23       | 33.60           | 34.09  | -98.68            | 2,416.92               | 309.92          | 1,415.93         | 1,349.94           | 65.99             | 21.457 |                                                                                      |         |                    |  |         |
| 9,263.62                   | 8,835.00       | 9,458.63       | 9,059.94       | 33.67           | 34.21  | -98.70            | 2,417.05               | 331.65          | 1,415.97         | 1,349.79           | 66.18             | 21.397 |                                                                                      |         |                    |  |         |
| 9,300.00                   | 8,835.00       | 9,502.02       | 9,060.00       | 33.88           | 34.45  | -98.70            | 2,417.28               | 370.99          | 1,415.97         | 1,349.35           | 66.62             | 21.253 |                                                                                      |         |                    |  |         |
| 9,400.00                   | 8,835.00       | 9,597.98       | 9,060.00       | 34.53           | 35.07  | -98.70            | 2,417.88               | 470.99          | 1,415.97         | 1,348.10           | 67.87             | 20.862 |                                                                                      |         |                    |  |         |
| 9,500.00                   | 8,835.00       | 9,702.02       | 9,060.00       | 35.30           | 35.85  | -98.70            | 2,418.48               | 570.98          | 1,415.97         | 1,346.58           | 69.39             | 20.405 |                                                                                      |         |                    |  |         |
| 9,600.00                   | 8,835.00       | 9,802.02       | 9,060.00       | 36.17           | 36.70  | -98.70            | 2,419.07               | 670.98          | 1,415.97         | 1,344.89           | 71.09             | 19.919 |                                                                                      |         |                    |  |         |
| 9,700.00                   | 8,835.00       | 9,902.02       | 9,060.00       | 37.13           | 37.65  | -98.70            | 2,419.67               | 770.98          | 1,415.97         | 1,343.01           | 72.96             | 19.407 |                                                                                      |         |                    |  |         |
| 9,800.00                   | 8,835.00       | 10,002.02      | 9,060.00       | 38.18           | 38.69  | -98.70            | 2,420.26               | 870.98          | 1,415.97         | 1,340.96           | 75.01             | 18.877 |                                                                                      |         |                    |  |         |
| 9,900.00                   | 8,835.00       | 10,102.02      | 9,060.00       | 39.31           | 39.80  | -98.70            | 2,420.86               | 970.98          | 1,415.97         | 1,338.75           | 77.22             | 18.337 |                                                                                      |         |                    |  |         |
| 10,000.00                  | 8,835.00       | 10,202.02      | 9,060.00       | 40.51           | 40.98  | -98.70            | 2,421.46               | 1,070.98        | 1,415.97         | 1,336.40           | 79.57             | 17.795 |                                                                                      |         |                    |  |         |
| 10,100.00                  | 8,835.00       | 10,302.02      | 9,060.00       | 41.78           | 42.24  | -98.70            | 2,422.05               | 1,170.97        | 1,415.97         | 1,333.92           | 82.06             | 17.256 |                                                                                      |         |                    |  |         |
| 10,200.00                  | 8,835.00       | 10,402.02      | 9,060.00       | 43.10           | 43.55  | -98.70            | 2,422.65               | 1,270.97        | 1,415.97         | 1,331.31           | 84.66             | 16.725 |                                                                                      |         |                    |  |         |
| 10,300.00                  | 8,835.00       | 10,502.02      | 9,060.00       | 44.49           | 44.91  | -98.70            | 2,423.24               | 1,370.97        | 1,415.97         | 1,328.59           | 87.38             | 16.205 |                                                                                      |         |                    |  |         |
| 10,400.00                  | 8,835.00       | 10,602.02      | 9,060.00       | 45.92           | 46.33  | -98.70            | 2,423.84               | 1,470.97        | 1,415.97         | 1,325.78           | 90.20             | 15.699 |                                                                                      |         |                    |  |         |
| 10,500.00                  | 8,835.00       | 10,697.98      | 9,060.00       | 47.39           | 47.73  | -98.70            | 2,424.44               | 1,570.97        | 1,415.97         | 1,322.93           | 93.04             | 15.218 |                                                                                      |         |                    |  |         |
| 10,600.00                  | 8,835.00       | 10,797.98      | 9,060.00       | 48.91           | 49.24  | -98.70            | 2,425.03               | 1,670.97        | 1,415.97         | 1,319.94           | 96.03             | 14.745 |                                                                                      |         |                    |  |         |
| 10,700.00                  | 8,835.00       | 10,902.02      | 9,060.00       | 50.47           | 50.84  | -98.70            | 2,425.63               | 1,770.96        | 1,415.97         | 1,316.81           | 99.16             | 14.280 |                                                                                      |         |                    |  |         |
| 10,800.00                  | 8,835.00       | 10,997.98      | 9,060.00       | 52.06           | 52.35  | -98.70            | 2,426.22               | 1,870.96        | 1,415.97         | 1,313.74           | 102.23            | 13.851 |                                                                                      |         |                    |  |         |
| 10,900.00                  | 8,835.00       | 11,102.02      | 9,060.00       | 53.68           | 54.03  | -98.70            | 2,426.82               | 1,970.96        | 1,415.97         | 1,310.48           | 105.49            | 13.423 |                                                                                      |         |                    |  |         |
| 11,000.00                  | 8,835.00       | 11,197.98      | 9,060.00       | 55.32           | 55.60  | -98.70            | 2,427.41               | 2,070.96        | 1,415.97         | 1,307.29           | 108.68            | 13.029 |                                                                                      |         |                    |  |         |
| 11,100.00                  | 8,835.00       | 11,302.02      | 9,060.00       | 57.00           | 57.33  | -98.70            | 2,428.01               | 2,170.96        | 1,415.97         | 1,303.92           | 112.05            | 12.637 |                                                                                      |         |                    |  |         |
| 11,200.00                  | 8,835.00       | 11,402.02      | 9,060.00       | 58.70           | 59.01  | -98.70            | 2,428.61               | 2,270.95        | 1,415.97         | 1,300.57           | 115.40            | 12.270 |                                                                                      |         |                    |  |         |
| 11,300.00                  | 8,835.00       | 11,502.02      | 9,060.00       | 60.41           | 60.72  | -98.70            | 2,429.20               | 2,370.95        | 1,415.97         | 1,297.17           | 118.80            | 11.919 |                                                                                      |         |                    |  |         |
| 11,400.00                  | 8,835.00       | 11,602.02      | 9,060.00       | 62.15           | 62.45  | -98.70            | 2,429.80               | 2,470.95        | 1,415.97         | 1,293.74           | 122.24            | 11.584 |                                                                                      |         |                    |  |         |
| 11,500.00                  | 8,835.00       | 11,702.02      | 9,060.00       | 63.91           | 64.20  | -98.70            | 2,430.39               | 2,570.95        | 1,415.97         | 1,290.26           | 125.71            | 11.264 |                                                                                      |         |                    |  |         |
| 11,600.00                  | 8,835.00       | 11,802.02      | 9,060.00       | 65.69           | 65.97  | -98.70            | 2,430.99               | 2,670.95        | 1,415.97         | 1,286.76           | 129.22            | 10.958 |                                                                                      |         |                    |  |         |
| 11,700.00                  | 8,835.00       | 11,902.02      | 9,060.00       | 67.47           | 67.75  | -98.70            | 2,431.59               | 2,770.95        | 1,415.97         | 1,283.22           | 132.75            | 10.666 |                                                                                      |         |                    |  |         |
| 11,800.00                  | 8,835.00       | 11,997.98      | 9,060.00       | 69.28           | 69.47  | -98.70            | 2,432.18               | 2,870.94        | 1,415.97         | 1,279.73           | 136.25            | 10.393 |                                                                                      |         |                    |  |         |
| 11,900.00                  | 8,835.00       | 12,102.02      | 9,060.00       | 71.09           | 71.35  | -98.70            | 2,432.78               | 2,970.94        | 1,415.97         | 1,276.06           | 139.91            | 10.120 |                                                                                      |         |                    |  |         |
| 12,000.00                  | 8,835.00       | 12,202.02      | 9,060.00       | 72.92           | 73.17  | -98.70            | 2,433.37               | 3,070.94        | 1,415.97         | 1,272.44           | 143.53            | 9.865  |                                                                                      |         |                    |  |         |
| 12,100.00                  | 8,835.00       | 12,297.98      | 9,060.00       | 74.76           | 74.93  | -98.70            | 2,433.97               | 3,170.94        | 1,415.97         | 1,268.88           | 147.09            | 9.626  |                                                                                      |         |                    |  |         |
| 12,200.00                  | 8,835.00       | 12,402.02      | 9,060.00       | 76.61           | 76.85  | -98.70            | 2,434.57               | 3,270.94        | 1,415.97         | 1,265.14           | 150.83            | 9.388  |                                                                                      |         |                    |  |         |
| 12,300.00                  | 8,835.00       | 12,502.02      | 9,060.00       | 78.47           | 78.70  | -98.70            | 2,435.16               | 3,370.94        | 1,415.97         | 1,261.46           | 154.51            | 9.164  |                                                                                      |         |                    |  |         |
| 12,400.00                  | 8,835.00       | 12,602.02      | 9,060.00       | 80.34           | 80.57  | -98.70            | 2,435.76               | 3,470.93        | 1,415.97         | 1,257.77           | 158.21            | 8.950  |                                                                                      |         |                    |  |         |
| 12,500.00                  | 8,835.00       | 12,702.02      | 9,060.00       | 82.22           | 82.44  | -98.70            | 2,436.35               | 3,570.93        | 1,415.97         | 1,254.05           | 161.92            | 8.745  |                                                                                      |         |                    |  |         |
| 12,600.00                  | 8,835.00       | 12,802.02      | 9,060.00       | 84.11           | 84.32  | -98.70            | 2,436.95               | 3,670.93        | 1,415.97         | 1,250.32           | 165.65            | 8.548  |                                                                                      |         |                    |  |         |
| 12,700.00                  | 8,835.00       | 12,902.02      | 9,060.00       | 86.00           | 86.21  | -98.70            | 2,437.54               | 3,770.93        | 1,415.97         | 1,246.57           | 169.40            | 8.359  |                                                                                      |         |                    |  |         |
| 12,800.00                  | 8,835.00       | 13,002.02      | 9,060.00       | 87.90           | 88.10  | -98.70            | 2,438.14               | 3,870.93        | 1,415.97         | 1,242.82           | 173.16            | 8.177  |                                                                                      |         |                    |  |         |
| 12,900.00                  | 8,835.00       | 13,102.02      | 9,060.00       | 89.81           | 90.00  | -98.70            | 2,438.74               | 3,970.92        | 1,415.97         | 1,239.04           | 176.93            | 8.003  |                                                                                      |         |                    |  |         |
| 13,000.00                  | 8,835.00       | 13,202.02      | 9,060.00       | 91.72           | 91.91  | -98.70            | 2,439.33               | 4,070.92        | 1,415.97         | 1,235.26           | 180.71            | 7.835  |                                                                                      |         |                    |  |         |
| 13,100.00                  | 8,835.00       | 13,302.03      | 9,060.00       | 93.64           | 93.83  | -98.70            | 2,439.93               | 4,170.92        | 1,415.97         | 1,231.46           | 184.51            | 7.674  |                                                                                      |         |                    |  |         |
| 13,200.00                  | 8,835.00       | 13,402.03      | 9,060.00       | 95.56           | 95.74  | -98.70            | 2,440.52               | 4,270.92        | 1,415.97         | 1,227.66           | 188.31            | 7.519  |                                                                                      |         |                    |  |         |
| 13,300.00                  | 8,835.00       | 13,502.03      | 9,060.00       | 97.49           | 97.67  | -98.70            | 2,441.12               | 4,370.92        | 1,415.97         | 1,223.84           | 192.13            | 7.370  |                                                                                      |         |                    |  |         |
| 13,400.00                  | 8,835.00       | 13,602.03      | 9,060.00       | 99.42           | 99.60  | -98.70            | 2,441.72               | 4,470.92        | 1,415.97         | 1,220.02           | 195.96            | 7.226  |                                                                                      |         |                    |  |         |
| 13,500.00                  | 8,835.00       | 13,702.03      | 9,060.00       | 101.36          | 101.53 | -98.70            | 2,442.31               | 4,570.91        | 1,415.97         | 1,216.18           | 199.79            | 7.087  |                                                                                      |         |                    |  |         |
| 13,600.00                  | 8,835.00       | 13,802.03      | 9,060.00       | 103.30          | 103.47 | -98.70            | 2,442.91               | 4,670.91        | 1,415.97         | 1,212.34           | 203.63            | 6.954  |                                                                                      |         |                    |  |         |
| 13,700.00                  | 8,835.00       | 13,902.03      | 9,060.00       | 105.25          | 105.41 | -98.70            | 2,443.50               | 4,770.91        | 1,415.97         | 1,208.49           | 207.48            | 6.825  |                                                                                      |         |                    |  |         |
| 13,800.00                  | 8,835.00       | 14,002.03      | 9,060.00       | 107.20          | 107.36 | -98.70            | 2,444.10               | 4,870.91        | 1,415.97         | 1,204.63           | 211.34            | 6.700  |                                                                                      |         |                    |  |         |
| 13,900.00                  | 8,835.00       | 14,097.98      | 9,060.00       | 109.15          | 109.23 | -98.70            | 2,444.70               | 4,970.91        | 1,415.97         | 1,200.84           | 215.13            | 6.582  |                                                                                      |         |                    |  |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 14,000.00                  | 8,835.00            | 14,202.03           | 9,060.00            | 111.10          | 111.26      | -98.70                | 2,445.29                          | 5,070.90   | 1,415.97             | 1,196.89              | 219.08                  | 6.463             |                    |         |
| 14,100.00                  | 8,835.00            | 14,302.03           | 9,060.00            | 113.06          | 113.22      | -98.70                | 2,445.89                          | 5,170.90   | 1,415.97             | 1,193.02              | 222.96                  | 6.351             |                    |         |
| 14,200.00                  | 8,835.00            | 14,402.03           | 9,060.00            | 115.03          | 115.18      | -98.70                | 2,446.48                          | 5,270.90   | 1,415.97             | 1,189.13              | 226.84                  | 6.242             |                    |         |
| 14,300.00                  | 8,835.00            | 14,502.03           | 9,060.00            | 116.99          | 117.14      | -98.70                | 2,447.08                          | 5,370.90   | 1,415.97             | 1,185.24              | 230.73                  | 6.137             |                    |         |
| 14,400.00                  | 8,835.00            | 14,602.03           | 9,060.00            | 118.96          | 119.10      | -98.70                | 2,447.67                          | 5,470.90   | 1,415.97             | 1,181.35              | 234.63                  | 6.035             |                    |         |
| 14,500.00                  | 8,835.00            | 14,702.03           | 9,060.00            | 120.93          | 121.07      | -98.70                | 2,448.27                          | 5,570.90   | 1,415.97             | 1,177.44              | 238.53                  | 5.936             |                    |         |
| 14,600.00                  | 8,835.00            | 14,802.03           | 9,060.00            | 122.90          | 123.04      | -98.70                | 2,448.87                          | 5,670.89   | 1,415.97             | 1,173.54              | 242.43                  | 5.841             |                    |         |
| 14,700.00                  | 8,835.00            | 14,902.03           | 9,060.00            | 124.88          | 125.01      | -98.70                | 2,449.46                          | 5,770.89   | 1,415.97             | 1,169.63              | 246.34                  | 5.748             |                    |         |
| 14,800.00                  | 8,835.00            | 15,002.03           | 9,060.00            | 126.86          | 126.99      | -98.70                | 2,450.06                          | 5,870.89   | 1,415.97             | 1,165.71              | 250.26                  | 5.658             |                    |         |
| 14,900.00                  | 8,835.00            | 15,102.03           | 9,060.00            | 128.84          | 128.97      | -98.70                | 2,450.65                          | 5,970.89   | 1,415.97             | 1,161.80              | 254.18                  | 5.571             |                    |         |
| 15,000.00                  | 8,835.00            | 15,202.03           | 9,060.00            | 130.82          | 130.95      | -98.70                | 2,451.25                          | 6,070.89   | 1,415.97             | 1,157.87              | 258.10                  | 5.486             |                    |         |
| 15,100.00                  | 8,835.00            | 15,302.03           | 9,060.00            | 132.80          | 132.93      | -98.70                | 2,451.85                          | 6,170.89   | 1,415.97             | 1,153.95              | 262.03                  | 5.404             |                    |         |
| 15,200.00                  | 8,835.00            | 15,402.03           | 9,060.00            | 134.79          | 134.91      | -98.70                | 2,452.44                          | 6,270.88   | 1,415.97             | 1,150.01              | 265.96                  | 5.324             |                    |         |
| 15,300.00                  | 8,835.00            | 15,502.03           | 9,060.00            | 136.78          | 136.90      | -98.70                | 2,453.04                          | 6,370.88   | 1,415.97             | 1,146.08              | 269.89                  | 5.246             |                    |         |
| 15,400.00                  | 8,835.00            | 15,602.03           | 9,060.00            | 138.76          | 138.88      | -98.70                | 2,453.63                          | 6,470.88   | 1,415.97             | 1,142.14              | 273.83                  | 5.171             |                    |         |
| 15,500.00                  | 8,835.00            | 15,702.03           | 9,060.00            | 140.76          | 140.87      | -98.70                | 2,454.23                          | 6,570.88   | 1,415.97             | 1,138.20              | 277.77                  | 5.098             |                    |         |
| 15,600.00                  | 8,835.00            | 15,802.03           | 9,060.00            | 142.75          | 142.86      | -98.70                | 2,454.83                          | 6,670.88   | 1,415.97             | 1,134.26              | 281.71                  | 5.026             |                    |         |
| 15,700.00                  | 8,835.00            | 15,902.03           | 9,060.00            | 144.74          | 144.86      | -98.70                | 2,455.42                          | 6,770.87   | 1,415.97             | 1,130.31              | 285.66                  | 4.957 Alert       |                    |         |
| 15,800.00                  | 8,835.00            | 16,002.03           | 9,060.00            | 146.74          | 146.85      | -98.70                | 2,456.02                          | 6,870.87   | 1,415.97             | 1,126.36              | 289.61                  | 4.889 Alert       |                    |         |
| 15,900.00                  | 8,835.00            | 16,102.03           | 9,060.00            | 148.73          | 148.84      | -98.70                | 2,456.61                          | 6,970.87   | 1,415.97             | 1,122.41              | 293.56                  | 4.823 Alert       |                    |         |
| 16,000.00                  | 8,835.00            | 16,202.03           | 9,060.00            | 150.73          | 150.84      | -98.70                | 2,457.21                          | 7,070.87   | 1,415.97             | 1,118.45              | 297.52                  | 4.759 Alert       |                    |         |
| 16,100.00                  | 8,835.00            | 16,302.03           | 9,060.00            | 152.73          | 152.84      | -98.70                | 2,457.80                          | 7,170.87   | 1,415.97             | 1,114.50              | 301.48                  | 4.697 Alert       |                    |         |
| 16,200.00                  | 8,835.00            | 16,402.03           | 9,060.00            | 154.73          | 154.84      | -98.70                | 2,458.40                          | 7,270.87   | 1,415.97             | 1,110.54              | 305.44                  | 4.636 Alert       |                    |         |
| 16,300.00                  | 8,835.00            | 16,502.03           | 9,060.00            | 156.73          | 156.84      | -98.70                | 2,459.00                          | 7,370.86   | 1,415.97             | 1,106.57              | 309.40                  | 4.577 Alert       |                    |         |
| 16,400.00                  | 8,835.00            | 16,602.03           | 9,060.00            | 158.74          | 158.84      | -98.70                | 2,459.59                          | 7,470.86   | 1,415.97             | 1,102.61              | 313.36                  | 4.519 Alert       |                    |         |
| 16,500.00                  | 8,835.00            | 16,702.03           | 9,060.00            | 160.74          | 160.84      | -98.70                | 2,460.19                          | 7,570.86   | 1,415.97             | 1,098.64              | 317.33                  | 4.462 Alert       |                    |         |
| 16,600.00                  | 8,835.00            | 16,802.03           | 9,060.00            | 162.74          | 162.85      | -98.70                | 2,460.78                          | 7,670.86   | 1,415.97             | 1,094.67              | 321.30                  | 4.407 Alert       |                    |         |
| 16,700.00                  | 8,835.00            | 16,902.03           | 9,060.00            | 164.75          | 164.85      | -98.70                | 2,461.38                          | 7,770.86   | 1,415.97             | 1,090.70              | 325.27                  | 4.353 Alert       |                    |         |
| 16,800.00                  | 8,835.00            | 17,002.03           | 9,060.00            | 166.76          | 166.86      | -98.70                | 2,461.98                          | 7,870.86   | 1,415.97             | 1,086.73              | 329.24                  | 4.301 Alert       |                    |         |
| 16,900.00                  | 8,835.00            | 17,102.03           | 9,060.00            | 168.77          | 168.86      | -98.70                | 2,462.57                          | 7,970.85   | 1,415.97             | 1,082.75              | 333.22                  | 4.249 Alert       |                    |         |
| 17,000.00                  | 8,835.00            | 17,202.03           | 9,060.00            | 170.77          | 170.87      | -98.70                | 2,463.17                          | 8,070.85   | 1,415.97             | 1,078.78              | 337.19                  | 4.199 Alert       |                    |         |
| 17,100.00                  | 8,835.00            | 17,302.03           | 9,060.00            | 172.78          | 172.88      | -98.70                | 2,463.76                          | 8,170.85   | 1,415.97             | 1,074.80              | 341.17                  | 4.150 Alert       |                    |         |
| 17,200.00                  | 8,835.00            | 17,402.03           | 9,060.00            | 174.79          | 174.89      | -98.70                | 2,464.36                          | 8,270.85   | 1,415.97             | 1,070.82              | 345.15                  | 4.102 Alert       |                    |         |
| 17,300.00                  | 8,835.00            | 17,502.03           | 9,060.00            | 176.81          | 176.90      | -98.70                | 2,464.96                          | 8,370.85   | 1,415.97             | 1,066.84              | 349.13                  | 4.056 Alert       |                    |         |
| 17,400.00                  | 8,835.00            | 17,602.03           | 9,060.00            | 178.82          | 178.91      | -98.70                | 2,465.55                          | 8,470.84   | 1,415.97             | 1,062.85              | 353.12                  | 4.010 Alert       |                    |         |
| 17,500.00                  | 8,835.00            | 17,702.03           | 9,060.00            | 180.83          | 180.92      | -98.70                | 2,466.15                          | 8,570.84   | 1,415.97             | 1,058.87              | 357.10                  | 3.965 Alert       |                    |         |
| 17,600.00                  | 8,835.00            | 17,802.03           | 9,060.00            | 182.84          | 182.93      | -98.70                | 2,466.74                          | 8,670.84   | 1,415.97             | 1,054.88              | 361.09                  | 3.921 Alert       |                    |         |
| 17,700.00                  | 8,835.00            | 17,902.03           | 9,060.00            | 184.86          | 184.95      | -98.70                | 2,467.34                          | 8,770.84   | 1,415.97             | 1,050.89              | 365.08                  | 3.879 Alert       |                    |         |
| 17,800.00                  | 8,835.00            | 18,002.03           | 9,060.00            | 186.87          | 186.96      | -98.70                | 2,467.94                          | 8,870.84   | 1,415.97             | 1,046.91              | 369.07                  | 3.837 Alert       |                    |         |
| 17,900.00                  | 8,835.00            | 18,102.03           | 9,060.00            | 188.89          | 188.97      | -98.70                | 2,468.53                          | 8,970.84   | 1,415.97             | 1,042.92              | 373.06                  | 3.796 Alert       |                    |         |
| 18,000.00                  | 8,835.00            | 18,202.03           | 9,060.00            | 190.91          | 190.99      | -98.70                | 2,469.13                          | 9,070.83   | 1,415.97             | 1,038.92              | 377.05                  | 3.755 Alert       |                    |         |
| 18,100.00                  | 8,835.00            | 18,302.03           | 9,060.00            | 192.92          | 193.01      | -98.70                | 2,469.72                          | 9,170.83   | 1,415.97             | 1,034.93              | 381.04                  | 3.716 Alert       |                    |         |
| 18,200.00                  | 8,835.00            | 18,402.03           | 9,060.00            | 194.94          | 195.02      | -98.70                | 2,470.32                          | 9,270.83   | 1,415.97             | 1,030.94              | 385.03                  | 3.678 Alert       |                    |         |
| 18,300.00                  | 8,835.00            | 18,502.03           | 9,060.00            | 196.96          | 197.04      | -98.70                | 2,470.91                          | 9,370.83   | 1,415.97             | 1,026.94              | 389.03                  | 3.640 Alert       |                    |         |
| 18,400.00                  | 8,835.00            | 18,602.03           | 9,060.00            | 198.98          | 199.06      | -98.70                | 2,471.51                          | 9,470.83   | 1,415.97             | 1,022.94              | 393.03                  | 3.603 Alert       |                    |         |
| 18,500.00                  | 8,835.00            | 18,702.03           | 9,060.00            | 201.00          | 201.08      | -98.70                | 2,472.11                          | 9,570.83   | 1,415.97             | 1,018.95              | 397.02                  | 3.566 Alert       |                    |         |
| 18,600.00                  | 8,835.00            | 18,802.03           | 9,060.00            | 203.02          | 203.10      | -98.70                | 2,472.70                          | 9,670.82   | 1,415.97             | 1,014.95              | 401.02                  | 3.531 Alert       |                    |         |
| 18,700.00                  | 8,835.00            | 18,902.03           | 9,060.00            | 205.04          | 205.11      | -98.70                | 2,473.30                          | 9,770.82   | 1,415.97             | 1,010.95              | 405.02                  | 3.496 Alert       |                    |         |
| 18,800.00                  | 8,835.00            | 19,002.03           | 9,060.00            | 207.06          | 207.13      | -98.70                | 2,473.89                          | 9,870.82   | 1,415.97             | 1,006.95              | 409.02                  | 3.462 Alert       |                    |         |
| 18,900.00                  | 8,835.00            | 19,102.03           | 9,060.00            | 209.08          | 209.16      | -98.70                | 2,474.49                          | 9,970.82   | 1,415.97             | 1,002.95              | 413.02                  | 3.428 Alert       |                    |         |
| 19,000.00                  | 8,835.00            | 19,202.03           | 9,060.00            | 211.10          | 211.18      | -98.70                | 2,475.09                          | 10,070.82  | 1,415.97             | 998.94                | 417.03                  | 3.395 Alert       |                    |         |
| 19,100.00                  | 8,835.00            | 19,302.03           | 9,060.00            | 213.12          | 213.20      | -98.70                | 2,475.68                          | 10,170.81  | 1,415.97             | 994.94                | 421.03                  | 3.363 Alert       |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

|                               |                               |                               |                               |                          |                       |                                 |                                                |                      |                                |                                 |                                   |                           |                |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------|-----------------------|---------------------------------|------------------------------------------------|----------------------|--------------------------------|---------------------------------|-----------------------------------|---------------------------|----------------|
| <b>Offset Design</b>          |                               |                               |                               |                          |                       |                                 |                                                |                      |                                |                                 |                                   | <b>Offset Site Error:</b> | 0.00 ft        |
| Survey Program: 0-MWD+IFR1    |                               |                               |                               |                          |                       |                                 |                                                |                      |                                |                                 |                                   | <b>Offset Well Error:</b> | 0.50 ft        |
| <b>Reference</b>              |                               | <b>Offset</b>                 |                               | <b>Semi Major Axis</b>   |                       |                                 | <b>Distance</b>                                |                      |                                |                                 |                                   |                           | <b>Warning</b> |
| <b>Measured Depth</b><br>(ft) | <b>Vertical Depth</b><br>(ft) | <b>Measured Depth</b><br>(ft) | <b>Vertical Depth</b><br>(ft) | <b>Reference</b><br>(ft) | <b>Offset</b><br>(ft) | <b>Highside Toolface</b><br>(°) | <b>Offset Wellbore Centre</b><br>+N/-S<br>(ft) | <b>+E/-W</b><br>(ft) | <b>Between Centres</b><br>(ft) | <b>Between Ellipses</b><br>(ft) | <b>Minimum Separation</b><br>(ft) | <b>Separation Factor</b>  |                |
| 19,200.00                     | 8,835.00                      | 19,402.03                     | 9,060.00                      | 215.15                   | 215.22                | -98.70                          | 2,476.28                                       | 10,270.81            | 1,415.97                       | 990.94                          | 425.03                            | 3.331                     | Alert          |
| 19,308.27                     | 8,835.00                      | 19,506.25                     | 9,060.00                      | 217.34                   | 217.33                | -98.70                          | 2,476.92                                       | 10,379.08            | 1,415.97                       | 986.68                          | 429.29                            | 3.298                     | Alert, ES, SF  |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                     | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                     | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                     |                    | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor   |                    |         |
| 0.00                       | 0.00                | 0.90                | -0.90               | 0.50            | 0.50        | 179.89                | -59.98                            | 0.11       | 59.98                |                       |                         |                     |                    |         |
| 100.00                     | 100.00              | 100.90              | 99.10               | 0.52            | 0.52        | 179.89                | -59.98                            | 0.11       | 59.98                | 58.94                 | 1.04                    | 57.876              |                    |         |
| 200.00                     | 200.00              | 200.90              | 199.10              | 0.70            | 0.70        | 179.89                | -59.98                            | 0.11       | 59.98                | 58.57                 | 1.41                    | 42.646              |                    |         |
| 300.00                     | 300.00              | 300.90              | 299.10              | 0.99            | 0.99        | 179.89                | -59.98                            | 0.11       | 59.98                | 58.00                 | 1.98                    | 30.332              |                    |         |
| 400.00                     | 400.00              | 400.90              | 399.10              | 1.31            | 1.31        | 179.89                | -59.98                            | 0.11       | 59.98                | 57.36                 | 2.62                    | 22.883              |                    |         |
| 500.00                     | 500.00              | 500.90              | 499.10              | 1.65            | 1.65        | 179.89                | -59.98                            | 0.11       | 59.98                | 56.68                 | 3.30                    | 18.202              |                    |         |
| 600.00                     | 600.00              | 600.90              | 599.10              | 1.99            | 1.99        | 179.89                | -59.98                            | 0.11       | 59.98                | 56.00                 | 3.98                    | 15.054              |                    |         |
| 700.00                     | 700.00              | 700.90              | 699.10              | 2.34            | 2.34        | 179.89                | -59.98                            | 0.11       | 59.98                | 55.30                 | 4.68                    | 12.811              |                    |         |
| 800.00                     | 800.00              | 800.90              | 799.10              | 2.69            | 2.69        | 179.89                | -59.98                            | 0.11       | 59.98                | 54.60                 | 5.38                    | 11.140              |                    |         |
| 900.00                     | 900.00              | 900.90              | 899.10              | 3.04            | 3.05        | 179.89                | -59.98                            | 0.11       | 59.98                | 53.89                 | 6.09                    | 9.849               |                    |         |
| 1,000.00                   | 1,000.00            | 1,000.90            | 999.10              | 3.40            | 3.40        | 179.89                | -59.98                            | 0.11       | 59.98                | 53.18                 | 6.80                    | 8.823               |                    |         |
| 1,100.00                   | 1,100.00            | 1,100.90            | 1,099.10            | 3.75            | 3.76        | 179.89                | -59.98                            | 0.11       | 59.98                | 52.47                 | 7.51                    | 7.988               |                    |         |
| 1,200.00                   | 1,200.00            | 1,200.90            | 1,199.10            | 4.11            | 4.11        | 179.89                | -59.98                            | 0.11       | 59.98                | 51.76                 | 8.22                    | 7.297               |                    |         |
| 1,300.00                   | 1,300.00            | 1,300.90            | 1,299.10            | 4.46            | 4.47        | 179.89                | -59.98                            | 0.11       | 59.98                | 51.05                 | 8.93                    | 6.716               |                    |         |
| 1,400.00                   | 1,400.00            | 1,400.90            | 1,399.10            | 4.82            | 4.82        | 179.89                | -59.98                            | 0.11       | 59.98                | 50.34                 | 9.64                    | 6.219               |                    |         |
| 1,500.00                   | 1,500.00            | 1,500.90            | 1,499.10            | 5.18            | 5.18        | 179.89                | -59.98                            | 0.11       | 59.98                | 49.62                 | 10.36                   | 5.791               |                    |         |
| 1,600.00                   | 1,600.00            | 1,600.90            | 1,599.10            | 5.53            | 5.54        | 179.89                | -59.98                            | 0.11       | 59.98                | 48.91                 | 11.07                   | 5.418               |                    |         |
| 1,700.00                   | 1,700.00            | 1,700.90            | 1,699.10            | 5.89            | 5.89        | 179.89                | -59.98                            | 0.11       | 59.98                | 48.19                 | 11.79                   | 5.089               |                    |         |
| 1,800.00                   | 1,800.00            | 1,800.90            | 1,799.10            | 6.25            | 6.25        | 179.89                | -59.98                            | 0.11       | 59.98                | 47.48                 | 12.50                   | 4.798 Alert         |                    |         |
| 1,900.00                   | 1,900.00            | 1,900.90            | 1,899.10            | 6.61            | 6.61        | 179.89                | -59.98                            | 0.11       | 59.98                | 46.77                 | 13.21                   | 4.539 Alert         |                    |         |
| 2,000.00                   | 2,000.00            | 2,000.90            | 1,999.10            | 6.96            | 6.97        | 179.89                | -59.98                            | 0.11       | 59.98                | 46.05                 | 13.93                   | 4.306 Alert, CC, ES |                    |         |
| 2,100.00                   | 2,099.99            | 2,100.91            | 2,099.09            | 7.32            | 7.32        | -167.50               | -59.98                            | 0.11       | 60.83                | 46.19                 | 14.64                   | 4.154 Alert         |                    |         |
| 2,200.00                   | 2,199.96            | 2,200.94            | 2,199.06            | 7.68            | 7.68        | -168.01               | -59.98                            | 0.11       | 63.39                | 48.03                 | 15.36                   | 4.127 Alert         |                    |         |
| 2,300.00                   | 2,299.86            | 2,301.04            | 2,298.96            | 8.04            | 8.04        | -168.77               | -59.98                            | 0.11       | 67.66                | 51.59                 | 16.08                   | 4.209 Alert         |                    |         |
| 2,400.00                   | 2,399.68            | 2,401.22            | 2,398.78            | 8.39            | 8.40        | -169.68               | -59.98                            | 0.11       | 73.66                | 56.87                 | 16.79                   | 4.387 Alert         |                    |         |
| 2,500.00                   | 2,499.37            | 2,498.47            | 2,498.47            | 8.75            | 8.75        | -170.66               | -59.98                            | 0.11       | 81.39                | 63.90                 | 17.50                   | 4.652 Alert         |                    |         |
| 2,600.00                   | 2,598.90            | 2,596.79            | 2,596.79            | 9.11            | 9.08        | -171.29               | -60.66                            | -0.35      | 91.51                | 73.33                 | 18.19                   | 5.032               |                    |         |
| 2,700.00                   | 2,698.26            | 2,694.61            | 2,694.57            | 9.46            | 9.40        | -171.35               | -62.72                            | -1.74      | 104.69               | 85.83                 | 18.86                   | 5.551               |                    |         |
| 2,800.00                   | 2,797.40            | 2,791.78            | 2,791.65            | 9.82            | 9.72        | -171.02               | -66.13                            | -4.05      | 120.89               | 101.37                | 19.53                   | 6.191               |                    |         |
| 2,900.00                   | 2,896.30            | 2,888.17            | 2,887.87            | 10.18           | 10.04       | -170.45               | -70.87                            | -7.25      | 140.11               | 119.92                | 20.19                   | 6.941               |                    |         |
| 3,000.00                   | 2,994.93            | 2,984.51            | 2,983.95            | 10.54           | 10.36       | -169.78               | -76.83                            | -11.29     | 162.23               | 141.37                | 20.85                   | 7.780               |                    |         |
| 3,100.00                   | 3,093.26            | 3,081.57            | 3,080.71            | 10.90           | 10.69       | -169.30               | -83.07                            | -15.51     | 186.26               | 164.73                | 21.53                   | 8.651               |                    |         |
| 3,195.07                   | 3,186.42            | 3,173.45            | 3,172.31            | 11.24           | 10.99       | -169.02               | -88.98                            | -19.51     | 210.65               | 188.47                | 22.18                   | 9.499               |                    |         |
| 3,200.00                   | 3,191.25            | 3,178.21            | 3,177.06            | 11.26           | 11.01       | -169.01               | -89.28                            | -19.71     | 211.95               | 189.74                | 22.21                   | 9.543               |                    |         |
| 3,300.00                   | 3,289.08            | 3,274.65            | 3,273.21            | 11.62           | 11.34       | -168.86               | -95.49                            | -23.91     | 238.40               | 215.51                | 22.89                   | 10.416              |                    |         |
| 3,400.00                   | 3,386.91            | 3,371.09            | 3,369.35            | 11.98           | 11.66       | -168.73               | -101.69                           | -28.10     | 264.85               | 241.28                | 23.57                   | 11.237              |                    |         |
| 3,500.00                   | 3,484.74            | 3,467.52            | 3,465.50            | 12.35           | 11.99       | -168.63               | -107.89                           | -32.30     | 291.30               | 267.04                | 24.25                   | 12.011              |                    |         |
| 3,600.00                   | 3,582.58            | 3,563.96            | 3,561.65            | 12.72           | 12.32       | -168.55               | -114.09                           | -36.50     | 317.75               | 292.81                | 24.94                   | 12.741              |                    |         |
| 3,700.00                   | 3,680.41            | 3,660.40            | 3,657.79            | 13.09           | 12.65       | -168.48               | -120.30                           | -40.69     | 344.20               | 318.57                | 25.63                   | 13.431              |                    |         |
| 3,800.00                   | 3,778.24            | 3,756.84            | 3,753.94            | 13.46           | 12.99       | -168.42               | -126.50                           | -44.89     | 370.65               | 344.33                | 26.32                   | 14.083              |                    |         |
| 3,900.00                   | 3,876.08            | 3,853.28            | 3,850.09            | 13.83           | 13.32       | -168.37               | -132.70                           | -49.08     | 397.10               | 370.09                | 27.01                   | 14.702              |                    |         |
| 4,000.00                   | 3,973.91            | 3,949.71            | 3,946.23            | 14.21           | 13.66       | -168.32               | -138.90                           | -53.28     | 423.55               | 395.84                | 27.70                   | 15.288              |                    |         |
| 4,100.00                   | 4,071.74            | 4,046.15            | 4,042.38            | 14.58           | 13.99       | -168.28               | -145.10                           | -57.47     | 450.00               | 421.60                | 28.40                   | 15.845              |                    |         |
| 4,200.00                   | 4,169.57            | 4,142.59            | 4,138.53            | 14.96           | 14.33       | -168.24               | -151.31                           | -61.67     | 476.45               | 447.35                | 29.10                   | 16.374              |                    |         |
| 4,300.00                   | 4,267.41            | 4,239.03            | 4,234.67            | 15.33           | 14.67       | -168.21               | -157.51                           | -65.87     | 502.90               | 473.10                | 29.80                   | 16.877              |                    |         |
| 4,400.00                   | 4,365.24            | 4,335.46            | 4,330.82            | 15.71           | 15.00       | -168.18               | -163.71                           | -70.06     | 529.35               | 498.85                | 30.50                   | 17.357              |                    |         |
| 4,500.00                   | 4,463.07            | 4,431.90            | 4,426.97            | 16.09           | 15.34       | -168.16               | -169.91                           | -74.26     | 555.80               | 524.60                | 31.20                   | 17.814              |                    |         |
| 4,600.00                   | 4,560.90            | 4,528.34            | 4,523.11            | 16.47           | 15.68       | -168.13               | -176.12                           | -78.45     | 582.25               | 550.35                | 31.90                   | 18.251              |                    |         |
| 4,700.00                   | 4,658.74            | 4,624.78            | 4,619.26            | 16.85           | 16.02       | -168.11               | -182.32                           | -82.65     | 608.71               | 576.10                | 32.61                   | 18.668              |                    |         |
| 4,800.00                   | 4,756.57            | 4,721.22            | 4,715.41            | 17.23           | 16.36       | -168.09               | -188.52                           | -86.84     | 635.16               | 601.85                | 33.31                   | 19.067              |                    |         |
| 4,900.00                   | 4,854.40            | 4,817.65            | 4,811.55            | 17.61           | 16.70       | -168.07               | -194.72                           | -91.04     | 661.61               | 627.59                | 34.02                   | 19.449              |                    |         |
| 5,000.00                   | 4,952.23            | 4,914.09            | 4,907.70            | 17.99           | 17.05       | -168.06               | -200.92                           | -95.23     | 688.06               | 653.34                | 34.72                   | 19.815              |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                   | 5,050.07            | 5,010.53            | 5,003.85            | 18.37           | 17.39       | -168.04               | -207.13                           | -99.43     | 714.51               | 679.08                | 35.43                   | 20.165            |                    |         |
| 5,200.00                   | 5,147.90            | 5,106.97            | 5,099.99            | 18.75           | 17.73       | -168.03               | -213.33                           | -103.63    | 740.97               | 704.83                | 36.14                   | 20.502            |                    |         |
| 5,300.00                   | 5,245.73            | 5,203.41            | 5,196.14            | 19.14           | 18.07       | -168.01               | -219.53                           | -107.82    | 767.42               | 730.57                | 36.85                   | 20.825            |                    |         |
| 5,400.00                   | 5,343.56            | 5,300.16            | 5,292.29            | 19.52           | 18.42       | -168.00               | -225.73                           | -112.02    | 793.87               | 756.31                | 37.56                   | 21.135            |                    |         |
| 5,500.00                   | 5,441.40            | 5,403.72            | 5,388.43            | 19.90           | 18.79       | -167.99               | -231.93                           | -116.21    | 820.32               | 782.02                | 38.30                   | 21.419            |                    |         |
| 5,600.00                   | 5,539.23            | 5,507.28            | 5,484.58            | 20.29           | 19.16       | -167.98               | -238.14                           | -120.41    | 846.78               | 807.74                | 39.04                   | 21.692            |                    |         |
| 5,700.00                   | 5,637.06            | 5,589.16            | 5,580.73            | 20.67           | 19.45       | -167.97               | -244.34                           | -124.60    | 873.23               | 833.53                | 39.70                   | 21.998            |                    |         |
| 5,800.00                   | 5,734.90            | 5,685.59            | 5,676.87            | 21.05           | 19.79       | -167.96               | -250.54                           | -128.80    | 899.68               | 859.27                | 40.41                   | 22.264            |                    |         |
| 5,900.00                   | 5,832.73            | 5,782.03            | 5,773.02            | 21.44           | 20.14       | -167.95               | -256.74                           | -132.99    | 926.13               | 885.01                | 41.12                   | 22.521            |                    |         |
| 6,000.00                   | 5,930.56            | 5,878.47            | 5,869.17            | 21.83           | 20.48       | -167.94               | -262.95                           | -137.19    | 952.58               | 910.75                | 41.84                   | 22.769            |                    |         |
| 6,100.00                   | 6,028.39            | 5,974.91            | 5,965.31            | 22.21           | 20.83       | -167.93               | -269.15                           | -141.39    | 979.04               | 936.48                | 42.55                   | 23.008            |                    |         |
| 6,200.00                   | 6,126.23            | 6,071.35            | 6,061.46            | 22.60           | 21.18       | -167.92               | -275.35                           | -145.58    | 1,005.49             | 962.22                | 43.27                   | 23.239            |                    |         |
| 6,300.00                   | 6,224.06            | 6,167.78            | 6,157.61            | 22.98           | 21.52       | -167.92               | -281.55                           | -149.78    | 1,031.94             | 987.96                | 43.98                   | 23.462            |                    |         |
| 6,400.00                   | 6,321.89            | 6,264.22            | 6,253.75            | 23.37           | 21.87       | -167.91               | -287.75                           | -153.97    | 1,058.39             | 1,013.69              | 44.70                   | 23.678            |                    |         |
| 6,500.00                   | 6,419.72            | 6,360.66            | 6,349.90            | 23.76           | 22.22       | -167.90               | -293.96                           | -158.17    | 1,084.85             | 1,039.43              | 45.42                   | 23.887            |                    |         |
| 6,600.00                   | 6,517.56            | 6,457.10            | 6,446.05            | 24.14           | 22.56       | -167.90               | -300.16                           | -162.36    | 1,111.30             | 1,065.17              | 46.13                   | 24.089            |                    |         |
| 6,700.00                   | 6,615.39            | 6,553.53            | 6,542.19            | 24.53           | 22.91       | -167.89               | -306.36                           | -166.56    | 1,137.75             | 1,090.90              | 46.85                   | 24.285            |                    |         |
| 6,800.00                   | 6,713.22            | 6,649.97            | 6,638.34            | 24.92           | 23.26       | -167.88               | -312.56                           | -170.76    | 1,164.20             | 1,116.63              | 47.57                   | 24.474            |                    |         |
| 6,900.00                   | 6,811.05            | 6,746.41            | 6,734.49            | 25.30           | 23.60       | -167.88               | -318.77                           | -174.95    | 1,190.66             | 1,142.37              | 48.29                   | 24.658            |                    |         |
| 7,000.00                   | 6,908.89            | 6,842.85            | 6,830.63            | 25.69           | 23.95       | -167.87               | -324.97                           | -179.15    | 1,217.11             | 1,168.10              | 49.01                   | 24.836            |                    |         |
| 7,100.00                   | 7,006.72            | 6,939.29            | 6,926.78            | 26.08           | 24.30       | -167.87               | -331.17                           | -183.34    | 1,243.56             | 1,193.84              | 49.73                   | 25.009            |                    |         |
| 7,200.00                   | 7,104.55            | 7,035.72            | 7,022.93            | 26.47           | 24.65       | -167.86               | -337.37                           | -187.54    | 1,270.01             | 1,219.57              | 50.44                   | 25.176            |                    |         |
| 7,216.87                   | 7,121.05            | 7,051.99            | 7,039.14            | 26.53           | 24.71       | -167.86               | -338.42                           | -188.25    | 1,274.48             | 1,223.91              | 50.57                   | 25.204            |                    |         |
| 7,300.00                   | 7,202.57            | 7,132.39            | 7,119.30            | 26.85           | 25.00       | -167.92               | -343.59                           | -191.74    | 1,295.61             | 1,244.45              | 51.16                   | 25.323            |                    |         |
| 7,400.00                   | 7,301.06            | 7,229.67            | 7,216.28            | 27.23           | 25.35       | -167.96               | -349.84                           | -195.98    | 1,318.76             | 1,266.88              | 51.88                   | 25.418            |                    |         |
| 7,500.00                   | 7,399.97            | 7,327.50            | 7,313.82            | 27.61           | 25.70       | -167.96               | -356.14                           | -200.23    | 1,339.42             | 1,286.81              | 52.60                   | 25.463            |                    |         |
| 7,600.00                   | 7,499.23            | 7,425.82            | 7,411.84            | 27.98           | 26.06       | -167.94               | -362.46                           | -204.51    | 1,357.56             | 1,304.24              | 53.32                   | 25.461            |                    |         |
| 7,700.00                   | 7,598.77            | 7,524.56            | 7,510.28            | 28.34           | 26.41       | -167.88               | -368.81                           | -208.80    | 1,373.18             | 1,319.15              | 54.03                   | 25.413            |                    |         |
| 7,800.00                   | 7,698.53            | 7,623.65            | 7,609.08            | 28.70           | 26.77       | -167.80               | -375.18                           | -213.12    | 1,386.28             | 1,331.53              | 54.75                   | 25.322            |                    |         |
| 7,900.00                   | 7,798.44            | 7,723.02            | 7,708.15            | 29.05           | 27.13       | -167.69               | -381.57                           | -217.44    | 1,396.84             | 1,341.39              | 55.45                   | 25.189            |                    |         |
| 8,000.00                   | 7,898.42            | 7,822.62            | 7,807.44            | 29.39           | 27.49       | -167.55               | -387.98                           | -221.77    | 1,404.87             | 1,348.71              | 56.16                   | 25.016            |                    |         |
| 8,013.58                   | 7,912.00            | 7,836.15            | 7,820.94            | 29.43           | 27.54       | 179.69                | -388.85                           | -222.36    | 1,405.76             | 1,349.51              | 56.25                   | 24.990            |                    |         |
| 8,100.00                   | 7,998.42            | 7,949.43            | 7,933.95            | 29.73           | 27.95       | 179.87                | -395.28                           | -226.71    | 1,410.72             | 1,353.68              | 57.04                   | 24.731            |                    |         |
| 8,200.00                   | 8,098.42            | 8,093.45            | 8,077.87            | 30.07           | 28.47       | 179.98                | -399.53                           | -229.59    | 1,413.67             | 1,355.66              | 58.01                   | 24.371            |                    |         |
| 8,300.00                   | 8,198.42            | 8,213.11            | 8,197.52            | 30.41           | 28.88       | 180.00                | -399.98                           | -229.89    | 1,413.98             | 1,355.19              | 58.80                   | 24.049            |                    |         |
| 8,363.62                   | 8,262.04            | 8,276.73            | 8,261.14            | 30.62           | 29.09       | 180.00                | -399.98                           | -229.89    | 1,413.98             | 1,354.75              | 59.23                   | 23.873            |                    |         |
| 8,400.00                   | 8,298.40            | 8,313.08            | 8,297.50            | 30.75           | 29.21       | 90.38                 | -399.98                           | -229.89    | 1,413.99             | 1,354.51              | 59.48                   | 23.774            |                    |         |
| 8,450.00                   | 8,348.10            | 8,362.78            | 8,347.20            | 30.91           | 29.38       | 90.59                 | -399.98                           | -229.89    | 1,414.03             | 1,354.23              | 59.81                   | 23.643            |                    |         |
| 8,500.00                   | 8,397.14            | 8,411.82            | 8,396.24            | 31.07           | 29.55       | 90.96                 | -399.98                           | -229.89    | 1,414.17             | 1,354.03              | 60.14                   | 23.516            |                    |         |
| 8,550.00                   | 8,445.15            | 8,459.84            | 8,444.25            | 31.23           | 29.71       | 91.47                 | -399.98                           | -229.89    | 1,414.48             | 1,354.01              | 60.46                   | 23.395            |                    |         |
| 8,600.00                   | 8,491.77            | 8,506.46            | 8,490.87            | 31.38           | 29.87       | 92.09                 | -399.98                           | -229.89    | 1,415.08             | 1,354.30              | 60.78                   | 23.282            |                    |         |
| 8,650.00                   | 8,536.65            | 8,558.87            | 8,543.21            | 31.52           | 30.04       | 92.85                 | -399.95                           | -227.60    | 1,416.01             | 1,354.88              | 61.13                   | 23.165            |                    |         |
| 8,700.00                   | 8,579.43            | 8,613.76            | 8,597.56            | 31.66           | 30.23       | 93.61                 | -399.87                           | -220.09    | 1,417.19             | 1,355.70              | 61.48                   | 23.051            |                    |         |
| 8,750.00                   | 8,619.80            | 8,671.24            | 8,653.44            | 31.80           | 30.41       | 94.36                 | -399.72                           | -206.69    | 1,418.57             | 1,356.73              | 61.84                   | 22.939            |                    |         |
| 8,800.00                   | 8,657.44            | 8,731.58            | 8,710.33            | 31.93           | 30.60       | 95.11                 | -399.50                           | -186.68    | 1,420.13             | 1,357.93              | 62.20                   | 22.831            |                    |         |
| 8,850.00                   | 8,692.08            | 8,795.00            | 8,767.51            | 32.06           | 30.79       | 95.84                 | -399.20                           | -159.33    | 1,421.81             | 1,359.25              | 62.56                   | 22.726            |                    |         |
| 8,900.00                   | 8,723.44            | 8,861.70            | 8,824.01            | 32.19           | 30.98       | 96.54                 | -398.81                           | -123.93    | 1,423.53             | 1,360.61              | 62.92                   | 22.624            |                    |         |
| 8,950.00                   | 8,751.29            | 8,931.81            | 8,878.52            | 32.34           | 31.18       | 97.21                 | -398.33                           | -79.92     | 1,425.23             | 1,361.94              | 63.28                   | 22.521            |                    |         |
| 9,000.00                   | 8,775.42            | 9,005.32            | 8,929.47            | 32.50           | 31.39       | 97.81                 | -397.75                           | -27.00     | 1,426.80             | 1,363.14              | 63.66                   | 22.413            |                    |         |
| 9,050.00                   | 8,795.64            | 9,082.06            | 8,974.97            | 32.67           | 31.63       | 98.34                 | -397.07                           | 34.73      | 1,428.16             | 1,364.09              | 64.07                   | 22.291            |                    |         |
| 9,100.00                   | 8,811.80            | 9,161.66            | 9,013.01            | 32.87           | 31.92       | 98.77                 | -396.30                           | 104.57     | 1,429.21             | 1,364.68              | 64.53                   | 22.149            |                    |         |
| 9,150.00                   | 8,823.77            | 9,243.53            | 9,041.66            | 33.10           | 32.26       | 99.09                 | -395.46                           | 181.18     | 1,429.88             | 1,364.82              | 65.07                   | 21.976            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,200.00                   | 8,831.47            | 9,326.85            | 9,059.31            | 33.34           | 32.67       | 99.26                 | -394.56                           | 262.53     | 1,430.11             | 1,364.41              | 65.70                   | 21.769            |                    |         |
| 9,250.00                   | 8,834.84            | 9,409.45            | 9,065.00            | 33.60           | 33.11       | 99.29                 | -393.65                           | 344.86     | 1,429.87             | 1,363.46              | 66.41                   | 21.532            |                    |         |
| 9,263.62                   | 8,835.00            | 9,423.07            | 9,065.00            | 33.67           | 33.20       | 99.29                 | -393.50                           | 358.48     | 1,429.77             | 1,363.20              | 66.57                   | 21.478            |                    |         |
| 9,300.00                   | 8,835.00            | 9,459.45            | 9,065.00            | 33.88           | 33.42       | 99.29                 | -393.10                           | 394.86     | 1,429.59             | 1,362.58              | 67.01                   | 21.334            |                    |         |
| 9,400.00                   | 8,835.00            | 9,559.45            | 9,065.00            | 34.53           | 34.11       | 99.30                 | -392.00                           | 494.85     | 1,429.09             | 1,360.73              | 68.36                   | 20.904            |                    |         |
| 9,500.00                   | 8,835.00            | 9,659.45            | 9,065.00            | 35.30           | 34.90       | 99.30                 | -390.90                           | 594.84     | 1,428.59             | 1,358.67              | 69.92                   | 20.431            |                    |         |
| 9,600.00                   | 8,835.00            | 9,759.45            | 9,065.00            | 36.17           | 35.80       | 99.30                 | -389.80                           | 694.83     | 1,428.10             | 1,356.42              | 71.68                   | 19.923            |                    |         |
| 9,700.00                   | 8,835.00            | 9,859.45            | 9,065.00            | 37.13           | 36.78       | 99.31                 | -388.70                           | 794.83     | 1,427.60             | 1,353.98              | 73.62                   | 19.393            |                    |         |
| 9,800.00                   | 8,835.00            | 9,959.45            | 9,065.00            | 38.18           | 37.85       | 99.31                 | -387.60                           | 894.82     | 1,427.10             | 1,351.38              | 75.72                   | 18.848            |                    |         |
| 9,900.00                   | 8,835.00            | 10,059.45           | 9,065.00            | 39.31           | 39.00       | 99.31                 | -386.50                           | 994.81     | 1,426.60             | 1,348.63              | 77.97                   | 18.296            |                    |         |
| 10,000.00                  | 8,835.00            | 10,159.44           | 9,065.00            | 40.51           | 40.22       | 99.32                 | -385.40                           | 1,094.80   | 1,426.11             | 1,345.73              | 80.37                   | 17.744            |                    |         |
| 10,100.00                  | 8,835.00            | 10,259.44           | 9,065.00            | 41.78           | 41.50       | 99.32                 | -384.30                           | 1,194.80   | 1,425.61             | 1,342.71              | 82.90                   | 17.197            |                    |         |
| 10,200.00                  | 8,835.00            | 10,359.44           | 9,065.00            | 43.10           | 42.85       | 99.32                 | -383.20                           | 1,294.79   | 1,425.11             | 1,339.57              | 85.54                   | 16.660            |                    |         |
| 10,300.00                  | 8,835.00            | 10,459.44           | 9,065.00            | 44.49           | 44.24       | 99.33                 | -382.10                           | 1,394.78   | 1,424.61             | 1,336.32              | 88.29                   | 16.136            |                    |         |
| 10,400.00                  | 8,835.00            | 10,559.44           | 9,065.00            | 45.92           | 45.69       | 99.33                 | -381.00                           | 1,494.77   | 1,424.11             | 1,332.98              | 91.13                   | 15.627            |                    |         |
| 10,500.00                  | 8,835.00            | 10,659.44           | 9,065.00            | 47.39           | 47.18       | 99.33                 | -379.90                           | 1,594.77   | 1,423.62             | 1,329.55              | 94.07                   | 15.134            |                    |         |
| 10,600.00                  | 8,835.00            | 10,759.44           | 9,065.00            | 48.91           | 48.71       | 99.34                 | -378.80                           | 1,694.76   | 1,423.12             | 1,326.04              | 97.08                   | 14.659            |                    |         |
| 10,700.00                  | 8,835.00            | 10,859.43           | 9,065.00            | 50.47           | 50.28       | 99.34                 | -377.70                           | 1,794.75   | 1,422.62             | 1,322.45              | 100.17                  | 14.203            |                    |         |
| 10,800.00                  | 8,835.00            | 10,959.43           | 9,065.00            | 52.06           | 51.88       | 99.34                 | -376.60                           | 1,894.75   | 1,422.12             | 1,318.80              | 103.32                  | 13.764            |                    |         |
| 10,900.00                  | 8,835.00            | 11,059.43           | 9,065.00            | 53.68           | 53.51       | 99.35                 | -375.50                           | 1,994.74   | 1,421.62             | 1,315.09              | 106.53                  | 13.345            |                    |         |
| 11,000.00                  | 8,835.00            | 11,159.43           | 9,065.00            | 55.32           | 55.17       | 99.35                 | -374.40                           | 2,094.73   | 1,421.13             | 1,311.33              | 109.80                  | 12.943            |                    |         |
| 11,100.00                  | 8,835.00            | 11,259.43           | 9,065.00            | 57.00           | 56.86       | 99.35                 | -373.30                           | 2,194.72   | 1,420.63             | 1,307.51              | 113.12                  | 12.559            |                    |         |
| 11,200.00                  | 8,835.00            | 11,359.43           | 9,065.00            | 58.70           | 58.56       | 99.36                 | -372.19                           | 2,294.72   | 1,420.13             | 1,303.65              | 116.48                  | 12.192            |                    |         |
| 11,300.00                  | 8,835.00            | 11,459.43           | 9,065.00            | 60.41           | 60.29       | 99.36                 | -371.09                           | 2,394.71   | 1,419.63             | 1,299.74              | 119.89                  | 11.841            |                    |         |
| 11,400.00                  | 8,835.00            | 11,559.43           | 9,065.00            | 62.15           | 62.04       | 99.36                 | -369.99                           | 2,494.70   | 1,419.13             | 1,295.80              | 123.33                  | 11.506            |                    |         |
| 11,500.00                  | 8,835.00            | 11,659.42           | 9,065.00            | 63.91           | 63.80       | 99.37                 | -368.89                           | 2,594.69   | 1,418.64             | 1,291.82              | 126.81                  | 11.187            |                    |         |
| 11,600.00                  | 8,835.00            | 11,759.42           | 9,065.00            | 65.69           | 65.59       | 99.37                 | -367.79                           | 2,694.69   | 1,418.14             | 1,287.81              | 130.33                  | 10.881            |                    |         |
| 11,700.00                  | 8,835.00            | 11,859.42           | 9,065.00            | 67.47           | 67.38       | 99.37                 | -366.69                           | 2,794.68   | 1,417.64             | 1,283.77              | 133.87                  | 10.590            |                    |         |
| 11,800.00                  | 8,835.00            | 11,959.42           | 9,065.00            | 69.28           | 69.19       | 99.38                 | -365.59                           | 2,894.67   | 1,417.14             | 1,279.70              | 137.44                  | 10.311            |                    |         |
| 11,900.00                  | 8,835.00            | 12,059.42           | 9,065.00            | 71.09           | 71.01       | 99.38                 | -364.49                           | 2,994.66   | 1,416.64             | 1,275.61              | 141.04                  | 10.044            |                    |         |
| 12,000.00                  | 8,835.00            | 12,159.42           | 9,065.00            | 72.92           | 72.85       | 99.38                 | -363.39                           | 3,094.66   | 1,416.15             | 1,271.49              | 144.66                  | 9.790             |                    |         |
| 12,100.00                  | 8,835.00            | 12,259.42           | 9,065.00            | 74.76           | 74.70       | 99.39                 | -362.29                           | 3,194.65   | 1,415.65             | 1,267.35              | 148.30                  | 9.546             |                    |         |
| 12,200.00                  | 8,835.00            | 12,359.42           | 9,065.00            | 76.61           | 76.55       | 99.39                 | -361.19                           | 3,294.64   | 1,415.15             | 1,263.19              | 151.96                  | 9.312             |                    |         |
| 12,300.00                  | 8,835.00            | 12,459.41           | 9,065.00            | 78.47           | 78.42       | 99.39                 | -360.09                           | 3,394.64   | 1,414.65             | 1,259.01              | 155.64                  | 9.089             |                    |         |
| 12,400.00                  | 8,835.00            | 12,559.41           | 9,065.00            | 80.34           | 80.29       | 99.40                 | -358.99                           | 3,494.63   | 1,414.16             | 1,254.81              | 159.34                  | 8.875             |                    |         |
| 12,500.00                  | 8,835.00            | 12,659.41           | 9,065.00            | 82.22           | 82.17       | 99.40                 | -357.89                           | 3,594.62   | 1,413.66             | 1,250.60              | 163.06                  | 8.670             |                    |         |
| 12,600.00                  | 8,835.00            | 12,759.41           | 9,065.00            | 84.11           | 84.06       | 99.40                 | -356.79                           | 3,694.61   | 1,413.16             | 1,246.37              | 166.79                  | 8.473             |                    |         |
| 12,700.00                  | 8,835.00            | 12,859.41           | 9,065.00            | 86.00           | 85.96       | 99.41                 | -355.69                           | 3,794.61   | 1,412.66             | 1,242.13              | 170.53                  | 8.284             |                    |         |
| 12,800.00                  | 8,835.00            | 12,959.41           | 9,065.00            | 87.90           | 87.86       | 99.41                 | -354.59                           | 3,894.60   | 1,412.16             | 1,237.87              | 174.29                  | 8.102             |                    |         |
| 12,900.00                  | 8,835.00            | 13,059.41           | 9,065.00            | 89.81           | 89.77       | 99.41                 | -353.49                           | 3,994.59   | 1,411.67             | 1,233.60              | 178.06                  | 7.928             |                    |         |
| 13,000.00                  | 8,835.00            | 13,159.41           | 9,065.00            | 91.72           | 91.69       | 99.42                 | -352.39                           | 4,094.58   | 1,411.17             | 1,229.32              | 181.85                  | 7.760             |                    |         |
| 13,100.00                  | 8,835.00            | 13,259.40           | 9,065.00            | 93.64           | 93.61       | 99.42                 | -351.28                           | 4,194.58   | 1,410.67             | 1,225.03              | 185.64                  | 7.599             |                    |         |
| 13,200.00                  | 8,835.00            | 13,359.40           | 9,065.00            | 95.56           | 95.54       | 99.42                 | -350.18                           | 4,294.57   | 1,410.17             | 1,220.73              | 189.44                  | 7.444             |                    |         |
| 13,300.00                  | 8,835.00            | 13,459.40           | 9,065.00            | 97.49           | 97.47       | 99.43                 | -349.08                           | 4,394.56   | 1,409.67             | 1,216.42              | 193.26                  | 7.294             |                    |         |
| 13,400.00                  | 8,835.00            | 13,559.40           | 9,065.00            | 99.42           | 99.40       | 99.43                 | -347.98                           | 4,494.55   | 1,409.18             | 1,212.10              | 197.08                  | 7.150             |                    |         |
| 13,500.00                  | 8,835.00            | 13,659.40           | 9,065.00            | 101.36          | 101.34      | 99.43                 | -346.88                           | 4,594.55   | 1,408.68             | 1,207.77              | 200.91                  | 7.011             |                    |         |
| 13,600.00                  | 8,835.00            | 13,759.40           | 9,065.00            | 103.30          | 103.29      | 99.44                 | -345.78                           | 4,694.54   | 1,408.18             | 1,203.43              | 204.75                  | 6.878             |                    |         |
| 13,700.00                  | 8,835.00            | 13,859.40           | 9,065.00            | 105.25          | 105.23      | 99.44                 | -344.68                           | 4,794.53   | 1,407.68             | 1,199.09              | 208.60                  | 6.748             |                    |         |
| 13,800.00                  | 8,835.00            | 13,959.40           | 9,065.00            | 107.20          | 107.19      | 99.44                 | -343.58                           | 4,894.53   | 1,407.19             | 1,194.73              | 212.45                  | 6.624             |                    |         |
| 13,900.00                  | 8,835.00            | 14,059.39           | 9,065.00            | 109.15          | 109.14      | 99.45                 | -342.48                           | 4,994.52   | 1,406.69             | 1,190.37              | 216.31                  | 6.503             |                    |         |
| 14,000.00                  | 8,835.00            | 14,159.39           | 9,065.00            | 111.10          | 111.10      | 99.45                 | -341.38                           | 5,094.51   | 1,406.19             | 1,186.01              | 220.18                  | 6.387             |                    |         |
| 14,100.00                  | 8,835.00            | 14,259.39           | 9,065.00            | 113.06          | 113.06      | 99.45                 | -340.28                           | 5,194.50   | 1,405.69             | 1,181.64              | 224.06                  | 6.274             |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 623H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Site Error:</b> | 0.00 ft |
|-----------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 0-MWD+IFR1                                                                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                           | Warning |
| Measured Depth (ft)                                                                                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor         |         |
| 14,200.00                                                                                                 | 8,835.00            | 14,359.39           | 9,065.00            | 115.03          | 115.03      | 99.46                 | -339.18                           | 5,294.50   | 1,405.19             | 1,177.26              | 227.94                  | 6.165                     |         |
| 14,300.00                                                                                                 | 8,835.00            | 14,459.39           | 9,065.00            | 116.99          | 116.99      | 99.46                 | -338.08                           | 5,394.49   | 1,404.70             | 1,172.88              | 231.82                  | 6.059                     |         |
| 14,400.00                                                                                                 | 8,835.00            | 14,559.39           | 9,065.00            | 118.96          | 118.96      | 99.46                 | -336.98                           | 5,494.48   | 1,404.20             | 1,168.49              | 235.71                  | 5.957                     |         |
| 14,500.00                                                                                                 | 8,835.00            | 14,659.39           | 9,065.00            | 120.93          | 120.93      | 99.47                 | -335.88                           | 5,594.47   | 1,403.70             | 1,164.09              | 239.61                  | 5.858                     |         |
| 14,600.00                                                                                                 | 8,835.00            | 14,759.39           | 9,065.00            | 122.90          | 122.91      | 99.47                 | -334.78                           | 5,694.47   | 1,403.20             | 1,159.70              | 243.51                  | 5.762                     |         |
| 14,700.00                                                                                                 | 8,835.00            | 14,859.38           | 9,065.00            | 124.88          | 124.89      | 99.47                 | -333.68                           | 5,794.46   | 1,402.71             | 1,155.29              | 247.41                  | 5.670                     |         |
| 14,800.00                                                                                                 | 8,835.00            | 14,959.38           | 9,065.00            | 126.86          | 126.86      | 99.48                 | -332.58                           | 5,894.45   | 1,402.21             | 1,150.89              | 251.32                  | 5.579                     |         |
| 14,900.00                                                                                                 | 8,835.00            | 15,059.38           | 9,065.00            | 128.84          | 128.85      | 99.48                 | -331.48                           | 5,994.44   | 1,401.71             | 1,146.48              | 255.24                  | 5.492                     |         |
| 15,000.00                                                                                                 | 8,835.00            | 15,159.38           | 9,065.00            | 130.82          | 130.83      | 99.48                 | -330.38                           | 6,094.44   | 1,401.21             | 1,142.06              | 259.15                  | 5.407                     |         |
| 15,100.00                                                                                                 | 8,835.00            | 15,259.38           | 9,065.00            | 132.80          | 132.81      | 99.49                 | -329.27                           | 6,194.43   | 1,400.72             | 1,137.64              | 263.07                  | 5.324                     |         |
| 15,200.00                                                                                                 | 8,835.00            | 15,359.38           | 9,065.00            | 134.79          | 134.80      | 99.49                 | -328.17                           | 6,294.42   | 1,400.22             | 1,133.22              | 267.00                  | 5.244                     |         |
| 15,300.00                                                                                                 | 8,835.00            | 15,459.38           | 9,065.00            | 136.78          | 136.79      | 99.50                 | -327.07                           | 6,394.42   | 1,399.72             | 1,128.79              | 270.93                  | 5.166                     |         |
| 15,400.00                                                                                                 | 8,835.00            | 15,559.38           | 9,065.00            | 138.76          | 138.78      | 99.50                 | -325.97                           | 6,494.41   | 1,399.22             | 1,124.36              | 274.86                  | 5.091                     |         |
| 15,500.00                                                                                                 | 8,835.00            | 15,659.37           | 9,065.00            | 140.76          | 140.77      | 99.50                 | -324.87                           | 6,594.40   | 1,398.72             | 1,119.93              | 278.79                  | 5.017                     |         |
| 15,600.00                                                                                                 | 8,835.00            | 15,759.37           | 9,065.00            | 142.75          | 142.76      | 99.51                 | -323.77                           | 6,694.39   | 1,398.23             | 1,115.50              | 282.73                  | 4.945 Alert               |         |
| 15,700.00                                                                                                 | 8,835.00            | 15,859.37           | 9,065.00            | 144.74          | 144.76      | 99.51                 | -322.67                           | 6,794.39   | 1,397.73             | 1,111.06              | 286.67                  | 4.876 Alert               |         |
| 15,800.00                                                                                                 | 8,835.00            | 15,959.37           | 9,065.00            | 146.74          | 146.75      | 99.51                 | -321.57                           | 6,894.38   | 1,397.23             | 1,106.62              | 290.61                  | 4.808 Alert               |         |
| 15,900.00                                                                                                 | 8,835.00            | 16,059.37           | 9,065.00            | 148.73          | 148.75      | 99.52                 | -320.47                           | 6,994.37   | 1,396.73             | 1,102.17              | 294.56                  | 4.742 Alert               |         |
| 16,000.00                                                                                                 | 8,835.00            | 16,159.37           | 9,065.00            | 150.73          | 150.75      | 99.52                 | -319.37                           | 7,094.36   | 1,396.24             | 1,097.73              | 298.51                  | 4.677 Alert               |         |
| 16,100.00                                                                                                 | 8,835.00            | 16,259.37           | 9,065.00            | 152.73          | 152.75      | 99.52                 | -318.27                           | 7,194.36   | 1,395.74             | 1,093.28              | 302.46                  | 4.615 Alert               |         |
| 16,200.00                                                                                                 | 8,835.00            | 16,359.36           | 9,065.00            | 154.73          | 154.75      | 99.53                 | -317.17                           | 7,294.35   | 1,395.24             | 1,088.83              | 306.41                  | 4.553 Alert               |         |
| 16,300.00                                                                                                 | 8,835.00            | 16,459.36           | 9,065.00            | 156.73          | 156.75      | 99.53                 | -316.07                           | 7,394.34   | 1,394.74             | 1,084.38              | 310.37                  | 4.494 Alert               |         |
| 16,400.00                                                                                                 | 8,835.00            | 16,559.36           | 9,065.00            | 158.74          | 158.76      | 99.53                 | -314.97                           | 7,494.33   | 1,394.25             | 1,079.92              | 314.32                  | 4.436 Alert               |         |
| 16,500.00                                                                                                 | 8,835.00            | 16,659.36           | 9,065.00            | 160.74          | 160.76      | 99.54                 | -313.87                           | 7,594.33   | 1,393.75             | 1,075.46              | 318.28                  | 4.379 Alert               |         |
| 16,600.00                                                                                                 | 8,835.00            | 16,759.36           | 9,065.00            | 162.74          | 162.77      | 99.54                 | -312.77                           | 7,694.32   | 1,393.25             | 1,071.00              | 322.25                  | 4.324 Alert               |         |
| 16,700.00                                                                                                 | 8,835.00            | 16,859.36           | 9,065.00            | 164.75          | 164.77      | 99.54                 | -311.67                           | 7,794.31   | 1,392.75             | 1,066.54              | 326.21                  | 4.270 Alert               |         |
| 16,800.00                                                                                                 | 8,835.00            | 16,959.36           | 9,065.00            | 166.76          | 166.78      | 99.55                 | -310.57                           | 7,894.31   | 1,392.25             | 1,062.08              | 330.17                  | 4.217 Alert               |         |
| 16,900.00                                                                                                 | 8,835.00            | 17,059.36           | 9,065.00            | 168.77          | 168.79      | 99.55                 | -309.47                           | 7,994.30   | 1,391.76             | 1,057.62              | 334.14                  | 4.165 Alert               |         |
| 17,000.00                                                                                                 | 8,835.00            | 17,159.35           | 9,065.00            | 170.77          | 170.80      | 99.55                 | -308.36                           | 8,094.29   | 1,391.26             | 1,053.15              | 338.11                  | 4.115 Alert               |         |
| 17,100.00                                                                                                 | 8,835.00            | 17,259.35           | 9,065.00            | 172.78          | 172.81      | 99.56                 | -307.26                           | 8,194.28   | 1,390.76             | 1,048.68              | 342.08                  | 4.066 Alert               |         |
| 17,200.00                                                                                                 | 8,835.00            | 17,359.35           | 9,065.00            | 174.79          | 174.82      | 99.56                 | -306.16                           | 8,294.28   | 1,390.26             | 1,044.21              | 346.05                  | 4.017 Alert               |         |
| 17,300.00                                                                                                 | 8,835.00            | 17,459.35           | 9,065.00            | 176.81          | 176.83      | 99.56                 | -305.06                           | 8,394.27   | 1,389.77             | 1,039.74              | 350.03                  | 3.970 Alert               |         |
| 17,400.00                                                                                                 | 8,835.00            | 17,559.35           | 9,065.00            | 178.82          | 178.84      | 99.57                 | -303.96                           | 8,494.26   | 1,389.27             | 1,035.27              | 354.00                  | 3.924 Alert               |         |
| 17,500.00                                                                                                 | 8,835.00            | 17,659.35           | 9,065.00            | 180.83          | 180.85      | 99.57                 | -302.86                           | 8,594.25   | 1,388.77             | 1,030.79              | 357.98                  | 3.879 Alert               |         |
| 17,600.00                                                                                                 | 8,835.00            | 17,759.35           | 9,065.00            | 182.84          | 182.87      | 99.57                 | -301.76                           | 8,694.25   | 1,388.27             | 1,026.32              | 361.96                  | 3.835 Alert               |         |
| 17,700.00                                                                                                 | 8,835.00            | 17,859.35           | 9,065.00            | 184.86          | 184.88      | 99.58                 | -300.66                           | 8,794.24   | 1,387.78             | 1,021.84              | 365.94                  | 3.792 Alert               |         |
| 17,800.00                                                                                                 | 8,835.00            | 17,959.34           | 9,065.00            | 186.87          | 186.90      | 99.58                 | -299.56                           | 8,894.23   | 1,387.28             | 1,017.36              | 369.92                  | 3.750 Alert               |         |
| 17,900.00                                                                                                 | 8,835.00            | 18,059.34           | 9,065.00            | 188.89          | 188.91      | 99.58                 | -298.46                           | 8,994.23   | 1,386.78             | 1,012.88              | 373.90                  | 3.709 Alert               |         |
| 18,000.00                                                                                                 | 8,835.00            | 18,159.34           | 9,065.00            | 190.91          | 190.93      | 99.59                 | -297.36                           | 9,094.22   | 1,386.28             | 1,008.40              | 377.88                  | 3.669 Alert               |         |
| 18,100.00                                                                                                 | 8,835.00            | 18,259.34           | 9,065.00            | 192.92          | 192.95      | 99.59                 | -296.26                           | 9,194.21   | 1,385.79             | 1,003.92              | 381.86                  | 3.629 Alert               |         |
| 18,200.00                                                                                                 | 8,835.00            | 18,359.34           | 9,065.00            | 194.94          | 194.96      | 99.59                 | -295.16                           | 9,294.20   | 1,385.29             | 999.44                | 385.85                  | 3.590 Alert               |         |
| 18,300.00                                                                                                 | 8,835.00            | 18,459.34           | 9,065.00            | 196.96          | 196.98      | 99.60                 | -294.06                           | 9,394.20   | 1,384.79             | 994.95                | 389.84                  | 3.552 Alert               |         |
| 18,400.00                                                                                                 | 8,835.00            | 18,559.34           | 9,065.00            | 198.98          | 199.00      | 99.60                 | -292.96                           | 9,494.19   | 1,384.29             | 990.47                | 393.82                  | 3.515 Alert               |         |
| 18,500.00                                                                                                 | 8,835.00            | 18,659.34           | 9,065.00            | 201.00          | 201.02      | 99.61                 | -291.86                           | 9,594.18   | 1,383.80             | 985.98                | 397.81                  | 3.479 Alert               |         |
| 18,600.00                                                                                                 | 8,835.00            | 18,759.33           | 9,065.00            | 203.02          | 203.04      | 99.61                 | -290.76                           | 9,694.17   | 1,383.30             | 981.50                | 401.80                  | 3.443 Alert               |         |
| 18,700.00                                                                                                 | 8,835.00            | 18,859.33           | 9,065.00            | 205.04          | 205.06      | 99.61                 | -289.66                           | 9,794.17   | 1,382.80             | 977.01                | 405.79                  | 3.408 Alert               |         |
| 18,800.00                                                                                                 | 8,835.00            | 18,959.33           | 9,065.00            | 207.06          | 207.08      | 99.62                 | -288.56                           | 9,894.16   | 1,382.30             | 972.52                | 409.78                  | 3.373 Alert               |         |
| 18,900.00                                                                                                 | 8,835.00            | 19,059.33           | 9,065.00            | 209.08          | 209.10      | 99.62                 | -287.46                           | 9,994.15   | 1,381.81             | 968.03                | 413.77                  | 3.340 Alert               |         |
| 19,000.00                                                                                                 | 8,835.00            | 19,159.33           | 9,065.00            | 211.10          | 211.12      | 99.62                 | -286.35                           | 10,094.14  | 1,381.31             | 963.54                | 417.77                  | 3.306 Alert               |         |
| 19,100.00                                                                                                 | 8,835.00            | 19,259.33           | 9,065.00            | 213.12          | 213.15      | 99.63                 | -285.25                           | 10,194.14  | 1,380.81             | 959.05                | 421.76                  | 3.274 Alert               |         |
| 19,200.00                                                                                                 | 8,835.00            | 19,359.33           | 9,065.00            | 215.15          | 215.17      | 99.63                 | -284.15                           | 10,294.13  | 1,380.31             | 954.56                | 425.76                  | 3.242 Alert               |         |
| 19,302.28                                                                                                 | 8,835.00            | 19,461.61           | 9,065.00            | 217.22          | 217.24      | 99.63                 | -283.03                           | 10,396.40  | 1,379.80             | 949.96                | 429.84                  | 3.210 Alert               |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 623H - Wellbore #1 - Permit Plan 1 |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Site Error:</b> | 0.00 ft   |
|-----------------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|-----------------------------------------|---------------|-------------------------|--------------------------|----------------------------|---------------------------|-----------|
| Survey Program: 0-MWD+IFR1                                                                                |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Well Error:</b> | 0.50 ft   |
| Reference                                                                                                 |                        | Offset                 |                        | Semi Major Axis   |                |                          | Distance                                |               |                         |                          |                            |                           |           |
| Measured Depth<br>(ft)                                                                                    | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between Centres<br>(ft) | Between Ellipses<br>(ft) | Minimum Separation<br>(ft) | Separation Factor         | Warning   |
| 19,308.27                                                                                                 | 8,835.00               | 19,456.84              | 9,065.00               | 217.34            | 217.14         | 99.63                    | -283.08                                 | 10,391.64     | 1,379.82                | 949.96                   | 429.86                     | 3.210                     | Alert, SF |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                        | 0.00                | 0.00                | 0.00                | 0.50            | 0.50        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.68             |                       |                         |                   |                    |         |
| 100.00                      | 100.00              | 50.20               | 50.20               | 0.52            | 0.78        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,376.01              | 1.30                    | 2,597.236         |                    |         |
| 200.00                      | 200.00              | 150.20              | 150.20              | 0.70            | 2.16        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,374.45              | 2.86                    | 1,180.686         |                    |         |
| 300.00                      | 300.00              | 250.20              | 250.20              | 0.99            | 3.63        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,372.69              | 4.62                    | 731.150           |                    |         |
| 400.00                      | 400.00              | 350.20              | 350.20              | 1.31            | 5.12        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,370.88              | 6.43                    | 525.371           |                    |         |
| 500.00                      | 500.00              | 450.20              | 450.20              | 1.65            | 6.61        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,369.05              | 8.26                    | 408.999           |                    |         |
| 600.00                      | 600.00              | 550.20              | 550.20              | 1.99            | 8.11        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,367.21              | 10.10                   | 334.516           |                    |         |
| 700.00                      | 700.00              | 650.20              | 650.20              | 2.34            | 9.60        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,365.37              | 11.94                   | 282.856           |                    |         |
| 800.00                      | 800.00              | 750.20              | 750.20              | 2.69            | 11.10       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,363.52              | 13.79                   | 244.960           |                    |         |
| 900.00                      | 900.00              | 850.20              | 850.20              | 3.04            | 12.59       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,361.67              | 15.64                   | 215.990           |                    |         |
| 1,000.00                    | 1,000.00            | 950.20              | 950.20              | 3.40            | 14.09       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,359.82              | 17.49                   | 193.132           |                    |         |
| 1,100.00                    | 1,100.00            | 1,050.20            | 1,050.20            | 3.75            | 15.59       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,357.97              | 19.34                   | 174.640           |                    |         |
| 1,200.00                    | 1,200.00            | 1,150.20            | 1,150.20            | 4.11            | 17.08       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,356.12              | 21.19                   | 159.373           |                    |         |
| 1,300.00                    | 1,300.00            | 1,250.20            | 1,250.20            | 4.46            | 18.58       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,354.27              | 23.04                   | 146.558           |                    |         |
| 1,400.00                    | 1,400.00            | 1,350.20            | 1,350.20            | 4.82            | 20.08       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,352.41              | 24.90                   | 135.647           |                    |         |
| 1,500.00                    | 1,500.00            | 1,450.20            | 1,450.20            | 5.18            | 21.57       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,350.56              | 26.75                   | 126.247           |                    |         |
| 1,600.00                    | 1,600.00            | 1,550.20            | 1,550.20            | 5.53            | 23.07       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,348.70              | 28.61                   | 118.064           |                    |         |
| 1,700.00                    | 1,700.00            | 1,650.20            | 1,650.20            | 5.89            | 24.57       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,346.85              | 30.46                   | 110.877           |                    |         |
| 1,800.00                    | 1,800.00            | 1,750.20            | 1,750.20            | 6.25            | 26.07       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,345.00              | 32.31                   | 104.513           |                    |         |
| 1,900.00                    | 1,900.00            | 1,850.20            | 1,850.20            | 6.61            | 27.56       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,343.14              | 34.17                   | 98.840            |                    |         |
| 2,000.00                    | 2,000.00            | 1,950.20            | 1,950.20            | 6.96            | 29.06       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,341.29              | 36.02                   | 93.751            |                    |         |
| 2,100.00                    | 2,099.99            | 2,050.19            | 2,050.19            | 7.32            | 30.56       | 127.48                | -1,411.08                         | 3,068.40   | 3,377.84             | 3,339.96              | 37.88                   | 89.175            |                    |         |
| 2,200.00                    | 2,199.96            | 2,150.16            | 2,150.16            | 7.68            | 32.06       | 127.51                | -1,411.08                         | 3,068.40   | 3,379.43             | 3,339.70              | 39.73                   | 85.055            |                    |         |
| 2,300.00                    | 2,299.86            | 2,250.06            | 2,250.06            | 8.04            | 33.55       | 127.54                | -1,411.08                         | 3,068.40   | 3,382.09             | 3,340.51              | 41.58                   | 81.331            |                    |         |
| 2,400.00                    | 2,399.68            | 2,349.88            | 2,349.88            | 8.39            | 35.05       | 127.60                | -1,411.08                         | 3,068.40   | 3,385.82             | 3,342.38              | 43.43                   | 77.952            |                    |         |
| 2,500.00                    | 2,499.37            | 2,449.57            | 2,449.57            | 8.75            | 36.54       | 127.66                | -1,411.08                         | 3,068.40   | 3,390.62             | 3,345.34              | 45.28                   | 74.876            |                    |         |
| 2,600.00                    | 2,598.90            | 2,549.10            | 2,549.10            | 9.11            | 38.03       | 127.74                | -1,411.08                         | 3,068.40   | 3,396.50             | 3,349.37              | 47.13                   | 72.068            |                    |         |
| 2,700.00                    | 2,698.26            | 2,648.46            | 2,648.46            | 9.46            | 39.52       | 127.84                | -1,411.08                         | 3,068.40   | 3,403.46             | 3,354.49              | 48.97                   | 69.497            |                    |         |
| 2,800.00                    | 2,797.40            | 2,747.60            | 2,747.60            | 9.82            | 41.00       | 127.95                | -1,411.08                         | 3,068.40   | 3,411.52             | 3,360.71              | 50.81                   | 67.139            |                    |         |
| 2,900.00                    | 2,896.30            | 2,846.50            | 2,846.50            | 10.18           | 42.48       | 128.07                | -1,411.08                         | 3,068.40   | 3,420.69             | 3,368.04              | 52.65                   | 64.971            |                    |         |
| 3,000.00                    | 2,994.93            | 2,945.13            | 2,945.13            | 10.54           | 43.96       | 128.20                | -1,411.08                         | 3,068.40   | 3,430.97             | 3,376.48              | 54.48                   | 62.973            |                    |         |
| 3,100.00                    | 3,093.26            | 3,043.46            | 3,043.46            | 10.90           | 45.43       | 128.35                | -1,411.08                         | 3,068.40   | 3,442.37             | 3,386.06              | 56.31                   | 61.130            |                    |         |
| 3,195.07                    | 3,186.42            | 3,136.62            | 3,136.62            | 11.24           | 46.83       | 128.50                | -1,411.08                         | 3,068.40   | 3,454.27             | 3,396.22              | 58.05                   | 59.507            |                    |         |
| 3,200.00                    | 3,191.25            | 3,141.45            | 3,141.45            | 11.26           | 46.90       | 128.51                | -1,411.08                         | 3,068.40   | 3,454.92             | 3,396.78              | 58.14                   | 59.425            |                    |         |
| 3,300.00                    | 3,289.08            | 3,239.28            | 3,239.28            | 11.62           | 48.37       | 128.78                | -1,411.08                         | 3,068.40   | 3,468.02             | 3,408.06              | 59.96                   | 57.836            |                    |         |
| 3,400.00                    | 3,386.91            | 3,337.11            | 3,337.11            | 11.98           | 49.83       | 129.04                | -1,411.08                         | 3,068.40   | 3,481.20             | 3,419.41              | 61.79                   | 56.341            |                    |         |
| 3,500.00                    | 3,484.74            | 3,434.94            | 3,434.94            | 12.35           | 51.30       | 129.30                | -1,411.08                         | 3,068.40   | 3,494.45             | 3,430.83              | 63.62                   | 54.931            |                    |         |
| 3,600.00                    | 3,582.58            | 3,532.78            | 3,532.78            | 12.72           | 52.76       | 129.56                | -1,411.08                         | 3,068.40   | 3,507.77             | 3,442.33              | 65.44                   | 53.599            |                    |         |
| 3,700.00                    | 3,680.41            | 3,630.61            | 3,630.61            | 13.09           | 54.23       | 129.81                | -1,411.08                         | 3,068.40   | 3,521.16             | 3,453.89              | 67.27                   | 52.340            |                    |         |
| 3,800.00                    | 3,778.24            | 3,728.44            | 3,728.44            | 13.46           | 55.69       | 130.07                | -1,411.08                         | 3,068.40   | 3,534.63             | 3,465.52              | 69.11                   | 51.148            |                    |         |
| 3,900.00                    | 3,876.08            | 3,826.28            | 3,826.28            | 13.83           | 57.16       | 130.32                | -1,411.08                         | 3,068.40   | 3,548.16             | 3,477.22              | 70.94                   | 50.018            |                    |         |
| 4,000.00                    | 3,973.91            | 3,924.11            | 3,924.11            | 14.21           | 58.62       | 130.57                | -1,411.08                         | 3,068.40   | 3,561.76             | 3,488.99              | 72.77                   | 48.945            |                    |         |
| 4,100.00                    | 4,071.74            | 4,021.94            | 4,021.94            | 14.58           | 60.09       | 130.82                | -1,411.08                         | 3,068.40   | 3,575.44             | 3,500.83              | 74.60                   | 47.925            |                    |         |
| 4,200.00                    | 4,169.57            | 4,119.77            | 4,119.77            | 14.96           | 61.55       | 131.07                | -1,411.08                         | 3,068.40   | 3,589.17             | 3,512.73              | 76.44                   | 46.954            |                    |         |
| 4,300.00                    | 4,267.41            | 4,217.61            | 4,217.61            | 15.33           | 63.02       | 131.31                | -1,411.08                         | 3,068.40   | 3,602.98             | 3,524.70              | 78.28                   | 46.030            |                    |         |
| 4,400.00                    | 4,365.24            | 4,315.44            | 4,315.44            | 15.71           | 64.48       | 131.56                | -1,411.08                         | 3,068.40   | 3,616.85             | 3,536.74              | 80.11                   | 45.148            |                    |         |
| 4,500.00                    | 4,463.07            | 4,413.27            | 4,413.27            | 16.09           | 65.95       | 131.80                | -1,411.08                         | 3,068.40   | 3,630.79             | 3,548.84              | 81.95                   | 44.306            |                    |         |
| 4,600.00                    | 4,560.90            | 4,511.10            | 4,511.10            | 16.47           | 67.41       | 132.04                | -1,411.08                         | 3,068.40   | 3,644.79             | 3,561.00              | 83.79                   | 43.501            |                    |         |
| 4,700.00                    | 4,658.74            | 4,608.94            | 4,608.94            | 16.85           | 68.88       | 132.27                | -1,411.08                         | 3,068.40   | 3,658.85             | 3,573.23              | 85.62                   | 42.732            |                    |         |
| 4,800.00                    | 4,756.57            | 4,706.77            | 4,706.77            | 17.23           | 70.34       | 132.51                | -1,411.08                         | 3,068.40   | 3,672.98             | 3,585.52              | 87.46                   | 41.995            |                    |         |
| 4,900.00                    | 4,854.40            | 4,804.60            | 4,804.60            | 17.61           | 71.81       | 132.75                | -1,411.08                         | 3,068.40   | 3,687.17             | 3,597.87              | 89.30                   | 41.289            |                    |         |
| 5,000.00                    | 4,952.23            | 4,902.43            | 4,902.43            | 17.99           | 73.27       | 132.98                | -1,411.08                         | 3,068.40   | 3,701.42             | 3,610.28              | 91.14                   | 40.612            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                    | 5,050.07            | 5,000.27            | 5,000.27            | 18.37           | 74.74       | 133.21                | -1,411.08                         | 3,068.40   | 3,715.73             | 3,622.75              | 92.98                   | 39.962            |                    |         |
| 5,200.00                    | 5,147.90            | 5,098.10            | 5,098.10            | 18.75           | 76.20       | 133.44                | -1,411.08                         | 3,068.40   | 3,730.10             | 3,635.28              | 94.82                   | 39.338            |                    |         |
| 5,300.00                    | 5,245.73            | 5,195.93            | 5,195.93            | 19.14           | 77.67       | 133.67                | -1,411.08                         | 3,068.40   | 3,744.53             | 3,647.87              | 96.66                   | 38.739            |                    |         |
| 5,400.00                    | 5,343.56            | 5,293.76            | 5,293.76            | 19.52           | 79.13       | 133.89                | -1,411.08                         | 3,068.40   | 3,759.02             | 3,660.52              | 98.50                   | 38.162            |                    |         |
| 5,500.00                    | 5,441.40            | 5,391.60            | 5,391.60            | 19.90           | 80.60       | 134.12                | -1,411.08                         | 3,068.40   | 3,773.57             | 3,673.22              | 100.34                  | 37.606            |                    |         |
| 5,600.00                    | 5,539.23            | 5,489.43            | 5,489.43            | 20.29           | 82.06       | 134.34                | -1,411.08                         | 3,068.40   | 3,788.17             | 3,685.99              | 102.19                  | 37.072            |                    |         |
| 5,700.00                    | 5,637.06            | 5,587.26            | 5,587.26            | 20.67           | 83.53       | 134.56                | -1,411.08                         | 3,068.40   | 3,802.83             | 3,698.81              | 104.03                  | 36.556            |                    |         |
| 5,800.00                    | 5,734.90            | 5,685.10            | 5,685.10            | 21.05           | 84.99       | 134.78                | -1,411.08                         | 3,068.40   | 3,817.55             | 3,711.68              | 105.87                  | 36.059            |                    |         |
| 5,900.00                    | 5,832.73            | 5,782.93            | 5,782.93            | 21.44           | 86.46       | 135.00                | -1,411.08                         | 3,068.40   | 3,832.32             | 3,724.61              | 107.71                  | 35.579            |                    |         |
| 6,000.00                    | 5,930.56            | 5,880.76            | 5,880.76            | 21.83           | 87.92       | 135.21                | -1,411.08                         | 3,068.40   | 3,847.15             | 3,737.60              | 109.55                  | 35.116            |                    |         |
| 6,100.00                    | 6,028.39            | 5,978.59            | 5,978.59            | 22.21           | 89.39       | 135.42                | -1,411.08                         | 3,068.40   | 3,862.03             | 3,750.64              | 111.40                  | 34.669            |                    |         |
| 6,200.00                    | 6,126.23            | 6,076.43            | 6,076.43            | 22.60           | 90.86       | 135.64                | -1,411.08                         | 3,068.40   | 3,876.97             | 3,763.73              | 113.24                  | 34.237            |                    |         |
| 6,300.00                    | 6,224.06            | 6,174.26            | 6,174.26            | 22.98           | 92.32       | 135.85                | -1,411.08                         | 3,068.40   | 3,891.96             | 3,776.87              | 115.08                  | 33.819            |                    |         |
| 6,400.00                    | 6,321.89            | 6,272.09            | 6,272.09            | 23.37           | 93.79       | 136.06                | -1,411.08                         | 3,068.40   | 3,907.00             | 3,790.07              | 116.93                  | 33.414            |                    |         |
| 6,500.00                    | 6,419.72            | 6,369.92            | 6,369.92            | 23.76           | 95.25       | 136.27                | -1,411.08                         | 3,068.40   | 3,922.09             | 3,803.32              | 118.77                  | 33.023            |                    |         |
| 6,600.00                    | 6,517.56            | 6,467.76            | 6,467.76            | 24.14           | 96.72       | 136.47                | -1,411.08                         | 3,068.40   | 3,937.23             | 3,816.62              | 120.61                  | 32.643            |                    |         |
| 6,700.00                    | 6,615.39            | 6,565.59            | 6,565.59            | 24.53           | 98.18       | 136.68                | -1,411.08                         | 3,068.40   | 3,952.43             | 3,829.97              | 122.46                  | 32.276            |                    |         |
| 6,800.00                    | 6,713.22            | 6,663.42            | 6,663.42            | 24.92           | 99.65       | 136.88                | -1,411.08                         | 3,068.40   | 3,967.67             | 3,843.37              | 124.30                  | 31.920            |                    |         |
| 6,900.00                    | 6,811.05            | 6,761.25            | 6,761.25            | 25.30           | 101.11      | 137.08                | -1,411.08                         | 3,068.40   | 3,982.96             | 3,856.82              | 126.15                  | 31.574            |                    |         |
| 7,000.00                    | 6,908.89            | 6,859.09            | 6,859.09            | 25.69           | 102.58      | 137.28                | -1,411.08                         | 3,068.40   | 3,998.30             | 3,870.31              | 127.99                  | 31.239            |                    |         |
| 7,100.00                    | 7,006.72            | 6,956.92            | 6,956.92            | 26.08           | 104.04      | 137.48                | -1,411.08                         | 3,068.40   | 4,013.69             | 3,883.86              | 129.83                  | 30.914            |                    |         |
| 7,200.00                    | 7,104.55            | 7,054.75            | 7,054.75            | 26.47           | 105.51      | 137.68                | -1,411.08                         | 3,068.40   | 4,029.13             | 3,897.45              | 131.68                  | 30.598            |                    |         |
| 7,216.87                    | 7,121.05            | 7,071.25            | 7,071.25            | 26.53           | 105.75      | 137.71                | -1,411.08                         | 3,068.40   | 4,031.74             | 3,899.75              | 131.99                  | 30.546            |                    |         |
| 7,300.00                    | 7,202.57            | 7,152.77            | 7,152.77            | 26.85           | 106.97      | 137.99                | -1,411.08                         | 3,068.40   | 4,043.95             | 3,910.42              | 133.52                  | 30.286            |                    |         |
| 7,400.00                    | 7,301.06            | 7,251.26            | 7,251.26            | 27.23           | 108.45      | 138.28                | -1,411.08                         | 3,068.40   | 4,056.91             | 3,921.53              | 135.37                  | 29.968            |                    |         |
| 7,500.00                    | 7,399.97            | 7,350.17            | 7,350.17            | 27.61           | 109.93      | 138.53                | -1,411.08                         | 3,068.40   | 4,067.96             | 3,930.73              | 137.23                  | 29.644            |                    |         |
| 7,600.00                    | 7,499.23            | 7,449.43            | 7,449.43            | 27.98           | 111.42      | 138.73                | -1,411.08                         | 3,068.40   | 4,077.07             | 3,937.99              | 139.08                  | 29.315            |                    |         |
| 7,700.00                    | 7,598.77            | 7,548.97            | 7,548.97            | 28.34           | 112.91      | 138.89                | -1,411.08                         | 3,068.40   | 4,084.24             | 3,943.31              | 140.93                  | 28.981            |                    |         |
| 7,800.00                    | 7,698.53            | 7,648.73            | 7,648.73            | 28.70           | 114.40      | 139.01                | -1,411.08                         | 3,068.40   | 4,089.44             | 3,946.66              | 142.78                  | 28.642            |                    |         |
| 7,900.00                    | 7,798.44            | 7,748.64            | 7,748.64            | 29.05           | 115.90      | 139.08                | -1,411.08                         | 3,068.40   | 4,092.68             | 3,948.05              | 144.63                  | 28.298            |                    |         |
| 8,000.00                    | 7,898.42            | 7,848.62            | 7,848.62            | 29.39           | 117.40      | 139.10                | -1,411.08                         | 3,068.40   | 4,093.93             | 3,947.47              | 146.47                  | 27.951            |                    |         |
| 8,013.58                    | 7,912.00            | 7,862.20            | 7,862.20            | 29.43           | 117.60      | 126.32                | -1,411.08                         | 3,068.40   | 4,093.95             | 3,947.23              | 146.72                  | 27.903            |                    |         |
| 8,100.00                    | 7,998.42            | 7,948.62            | 7,948.62            | 29.73           | 118.89      | 126.32                | -1,411.08                         | 3,068.40   | 4,093.95             | 3,945.64              | 148.31                  | 27.604            |                    |         |
| 8,200.00                    | 8,098.42            | 8,048.62            | 8,048.62            | 30.07           | 120.39      | 126.32                | -1,411.08                         | 3,068.40   | 4,093.95             | 3,943.81              | 150.15                  | 27.266            |                    |         |
| 8,300.00                    | 8,198.42            | 8,148.62            | 8,148.62            | 30.41           | 121.89      | 126.32                | -1,411.08                         | 3,068.40   | 4,093.95             | 3,941.97              | 151.99                  | 26.936            |                    |         |
| 8,363.62                    | 8,262.04            | 8,212.24            | 8,212.24            | 30.62           | 122.84      | 126.32                | -1,411.08                         | 3,068.40   | 4,093.95             | 3,940.80              | 153.16                  | 26.731            |                    |         |
| 8,400.00                    | 8,298.40            | 8,248.60            | 8,248.60            | 30.75           | 123.39      | 36.73                 | -1,411.08                         | 3,068.40   | 4,093.03             | 3,939.20              | 153.82                  | 26.609            |                    |         |
| 8,450.00                    | 8,348.10            | 8,298.30            | 8,298.30            | 30.91           | 124.13      | 37.03                 | -1,411.08                         | 3,068.40   | 4,088.74             | 3,934.02              | 154.72                  | 26.426            |                    |         |
| 8,500.00                    | 8,397.14            | 8,347.34            | 8,347.34            | 31.07           | 124.87      | 37.59                 | -1,411.08                         | 3,068.40   | 4,081.00             | 3,925.40              | 155.61                  | 26.226            |                    |         |
| 8,550.00                    | 8,445.15            | 8,395.35            | 8,395.35            | 31.23           | 125.58      | 38.41                 | -1,411.08                         | 3,068.40   | 4,069.89             | 3,913.42              | 156.47                  | 26.011            |                    |         |
| 8,600.00                    | 8,491.77            | 8,441.97            | 8,441.97            | 31.38           | 126.28      | 39.51                 | -1,411.08                         | 3,068.40   | 4,055.49             | 3,898.19              | 157.30                  | 25.781            |                    |         |
| 8,650.00                    | 8,536.65            | 8,486.85            | 8,486.85            | 31.52           | 126.95      | 40.92                 | -1,411.08                         | 3,068.40   | 4,037.94             | 3,879.84              | 158.10                  | 25.540            |                    |         |
| 8,700.00                    | 8,579.43            | 8,529.63            | 8,529.63            | 31.66           | 127.60      | 42.65                 | -1,411.08                         | 3,068.40   | 4,017.40             | 3,858.54              | 158.86                  | 25.289            |                    |         |
| 8,750.00                    | 8,619.80            | 8,570.00            | 8,570.00            | 31.80           | 128.20      | 44.74                 | -1,411.08                         | 3,068.40   | 3,994.05             | 3,834.48              | 159.57                  | 25.029            |                    |         |
| 8,800.00                    | 8,657.44            | 8,607.64            | 8,607.64            | 31.93           | 128.76      | 47.22                 | -1,411.08                         | 3,068.40   | 3,968.10             | 3,807.86              | 160.24                  | 24.763            |                    |         |
| 8,850.00                    | 8,692.08            | 8,642.28            | 8,642.28            | 32.06           | 129.28      | 50.13                 | -1,411.08                         | 3,068.40   | 3,939.77             | 3,778.92              | 160.86                  | 24.492            |                    |         |
| 8,900.00                    | 8,723.44            | 8,673.64            | 8,673.64            | 32.19           | 129.75      | 53.50                 | -1,411.08                         | 3,068.40   | 3,909.33             | 3,747.91              | 161.42                  | 24.218            |                    |         |
| 8,950.00                    | 8,751.29            | 8,701.49            | 8,701.49            | 32.34           | 130.17      | 57.36                 | -1,411.08                         | 3,068.40   | 3,877.03             | 3,715.09              | 161.93                  | 23.942            |                    |         |
| 9,000.00                    | 8,775.42            | 8,725.62            | 8,725.62            | 32.50           | 130.53      | 61.69                 | -1,411.08                         | 3,068.40   | 3,843.15             | 3,680.76              | 162.39                  | 23.666            |                    |         |
| 9,050.00                    | 8,795.64            | 8,745.84            | 8,745.84            | 32.67           | 130.83      | 66.49                 | -1,411.08                         | 3,068.40   | 3,807.99             | 3,645.19              | 162.80                  | 23.391            |                    |         |
| 9,100.00                    | 8,811.80            | 8,762.00            | 8,762.00            | 32.87           | 131.08      | 71.69                 | -1,411.08                         | 3,068.40   | 3,771.85             | 3,608.69              | 163.15                  | 23.119            |                    |         |
| 9,150.00                    | 8,823.77            | 8,773.97            | 8,773.97            | 33.10           | 131.25      | 77.18                 | -1,411.08                         | 3,068.40   | 3,735.02             | 3,571.57              | 163.45                  | 22.850            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lonetree 14 State Com #001 - Wellbore #1 - Wellbore #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Site Error:</b> | 0.00 ft |
|------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 10-INC-ONLY                                                                    |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                      |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                           | Warning |
| Measured Depth (ft)                                                                            | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor         |         |
| 9,200.00                                                                                       | 8,831.47            | 8,781.67            | 8,781.67            | 33.34           | 131.37      | 82.83                 | -1,411.08                         | 3,068.40   | 3,697.83             | 3,534.12              | 163.71                  | 22.588                    |         |
| 9,250.00                                                                                       | 8,834.84            | 8,785.04            | 8,785.04            | 33.60           | 131.42      | 88.48                 | -1,411.08                         | 3,068.40   | 3,660.56             | 3,496.65              | 163.91                  | 22.333                    |         |
| 9,263.62                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 33.67           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,650.43             | 3,486.48              | 163.95                  | 22.265                    |         |
| 9,300.00                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 33.88           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,623.50             | 3,459.42              | 164.08                  | 22.084                    |         |
| 9,400.00                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 34.53           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,550.33             | 3,385.86              | 164.47                  | 21.586                    |         |
| 9,500.00                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 35.30           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,478.49             | 3,313.54              | 164.95                  | 21.088                    |         |
| 9,600.00                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 36.17           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,408.08             | 3,242.55              | 165.52                  | 20.590                    |         |
| 9,700.00                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 37.13           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,339.17             | 3,172.98              | 166.19                  | 20.092                    |         |
| 9,800.00                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 38.18           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,271.88             | 3,104.91              | 166.96                  | 19.597                    |         |
| 9,900.00                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 39.31           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,206.29             | 3,038.45              | 167.84                  | 19.104                    |         |
| 10,000.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 40.51           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,142.51             | 2,973.69              | 168.82                  | 18.615                    |         |
| 10,100.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 41.78           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,080.66             | 2,910.75              | 169.91                  | 18.131                    |         |
| 10,200.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 43.10           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,020.85             | 2,849.74              | 171.11                  | 17.655                    |         |
| 10,300.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 44.49           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,963.21             | 2,790.79              | 172.42                  | 17.186                    |         |
| 10,400.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 45.92           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,907.87             | 2,734.04              | 173.83                  | 16.728                    |         |
| 10,500.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 47.39           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,854.96             | 2,679.61              | 175.35                  | 16.281                    |         |
| 10,600.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 48.91           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,804.62             | 2,627.65              | 176.97                  | 15.848                    |         |
| 10,700.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 50.47           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,756.99             | 2,578.30              | 178.68                  | 15.429                    |         |
| 10,800.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 52.06           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,712.21             | 2,531.73              | 180.48                  | 15.028                    |         |
| 10,900.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 53.68           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,670.42             | 2,488.07              | 182.35                  | 14.644                    |         |
| 11,000.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 55.32           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,631.78             | 2,447.48              | 184.29                  | 14.280                    |         |
| 11,100.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 57.00           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,596.41             | 2,410.12              | 186.29                  | 13.938                    |         |
| 11,200.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 58.70           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,564.46             | 2,376.13              | 188.33                  | 13.617                    |         |
| 11,300.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 60.41           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,536.04             | 2,345.65              | 190.39                  | 13.320                    |         |
| 11,400.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 62.15           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,511.30             | 2,318.83              | 192.47                  | 13.048                    |         |
| 11,500.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 63.91           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,490.32             | 2,295.78              | 194.54                  | 12.801                    |         |
| 11,600.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 65.69           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,473.21             | 2,276.62              | 196.60                  | 12.580                    |         |
| 11,700.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 67.47           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,460.06             | 2,261.44              | 198.62                  | 12.386                    |         |
| 11,800.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 69.28           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,450.91             | 2,250.32              | 200.59                  | 12.218                    |         |
| 11,900.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 71.09           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,445.82             | 2,243.32              | 202.50                  | 12.078                    |         |
| 11,974.55                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 72.46           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,444.69             | 2,240.81              | 203.88                  | 11.991 CC                 |         |
| 12,000.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 72.92           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,444.82             | 2,240.48              | 204.34                  | 11.965 ES                 |         |
| 12,100.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 74.76           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,447.90             | 2,241.83              | 206.08                  | 11.878                    |         |
| 12,200.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 76.61           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,455.06             | 2,247.34              | 207.72                  | 11.819                    |         |
| 12,300.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 78.47           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,466.26             | 2,257.00              | 209.26                  | 11.786                    |         |
| 12,400.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 80.34           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,481.43             | 2,270.75              | 210.68                  | 11.778 SF                 |         |
| 12,500.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 82.22           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,500.52             | 2,288.53              | 211.98                  | 11.796                    |         |
| 12,600.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 84.11           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,523.43             | 2,310.26              | 213.17                  | 11.838                    |         |
| 12,700.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 86.00           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,550.05             | 2,335.82              | 214.23                  | 11.903                    |         |
| 12,800.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 87.90           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,580.28             | 2,365.11              | 215.18                  | 11.991                    |         |
| 12,900.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 89.81           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,613.99             | 2,397.99              | 216.01                  | 12.102                    |         |
| 13,000.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 91.72           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,651.05             | 2,434.32              | 216.72                  | 12.232                    |         |
| 13,100.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 93.64           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,691.31             | 2,473.97              | 217.33                  | 12.383                    |         |
| 13,200.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 95.56           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,734.63             | 2,516.79              | 217.85                  | 12.553                    |         |
| 13,300.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 97.49           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,780.88             | 2,562.62              | 218.26                  | 12.741                    |         |
| 13,400.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 99.42           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,829.91             | 2,611.32              | 218.60                  | 12.946                    |         |
| 13,500.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 101.36          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,881.58             | 2,662.73              | 218.85                  | 13.167                    |         |
| 13,600.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 103.30          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,935.74             | 2,716.71              | 219.03                  | 13.403                    |         |
| 13,700.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 105.25          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,992.27             | 2,773.12              | 219.15                  | 13.654                    |         |
| 13,800.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 107.20          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,051.03             | 2,831.82              | 219.20                  | 13.919                    |         |
| 13,900.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 109.15          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,111.89             | 2,892.68              | 219.21                  | 14.196                    |         |
| 14,000.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 111.10          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,174.73             | 2,955.57              | 219.17                  | 14.485                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design    Sec 14-T21S-R27E - Lonetree 14 State Com #001 - Wellbore #1 - Wellbore #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: 0.00 ft |         |
|--------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|----------------------------|---------|
| Survey Program: 10-INC-ONLY                                                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: 0.50 ft |         |
| Reference                                                                                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                            | Warning |
| Measured Depth (ft)                                                                        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                            |         |
| 14,100.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 113.06          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,239.45             | 3,020.36              | 219.09                  | 14.786            |                            |         |
| 14,200.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 115.03          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,305.92             | 3,086.95              | 218.97                  | 15.098            |                            |         |
| 14,300.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 116.99          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,374.05             | 3,155.23              | 218.82                  | 15.419            |                            |         |
| 14,400.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 118.96          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,443.73             | 3,225.09              | 218.64                  | 15.750            |                            |         |
| 14,500.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 120.93          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,514.88             | 3,296.43              | 218.45                  | 16.090            |                            |         |
| 14,600.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 122.90          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,587.41             | 3,369.18              | 218.23                  | 16.439            |                            |         |
| 14,700.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 124.88          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,661.23             | 3,443.23              | 218.00                  | 16.795            |                            |         |
| 14,800.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 126.86          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,736.26             | 3,518.51              | 217.75                  | 17.158            |                            |         |
| 14,900.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 128.84          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,812.45             | 3,594.95              | 217.49                  | 17.529            |                            |         |
| 15,000.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 130.82          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,889.71             | 3,672.48              | 217.23                  | 17.906            |                            |         |
| 15,100.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 132.80          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,967.99             | 3,751.03              | 216.96                  | 18.289            |                            |         |
| 15,200.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 134.79          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,047.22             | 3,830.55              | 216.68                  | 18.678            |                            |         |
| 15,300.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 136.78          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,127.36             | 3,910.96              | 216.40                  | 19.073            |                            |         |
| 15,400.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 138.76          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,208.35             | 3,992.23              | 216.11                  | 19.473            |                            |         |
| 15,500.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 140.76          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,290.14             | 4,074.31              | 215.83                  | 19.877            |                            |         |
| 15,600.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 142.75          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,372.69             | 4,157.14              | 215.55                  | 20.286            |                            |         |
| 15,700.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 144.74          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,455.95             | 4,240.68              | 215.26                  | 20.700            |                            |         |
| 15,800.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 146.74          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,539.89             | 4,324.90              | 214.98                  | 21.117            |                            |         |
| 15,900.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 148.73          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,624.46             | 4,409.76              | 214.70                  | 21.539            |                            |         |
| 16,000.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 150.73          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,709.64             | 4,495.21              | 214.43                  | 21.964            |                            |         |
| 16,100.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 152.73          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,795.40             | 4,581.24              | 214.16                  | 22.392            |                            |         |
| 16,200.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 154.73          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,881.69             | 4,667.80              | 213.89                  | 22.824            |                            |         |
| 16,300.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 156.73          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,968.50             | 4,754.88              | 213.62                  | 23.258            |                            |         |
| 16,400.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 158.74          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,055.80             | 4,842.44              | 213.36                  | 23.696            |                            |         |
| 16,500.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 160.74          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,143.56             | 4,930.45              | 213.11                  | 24.136            |                            |         |
| 16,600.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 162.74          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,231.76             | 5,018.90              | 212.85                  | 24.579            |                            |         |
| 16,700.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 164.75          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,320.37             | 5,107.76              | 212.61                  | 25.024            |                            |         |
| 16,800.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 166.76          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,409.39             | 5,197.02              | 212.37                  | 25.472            |                            |         |
| 16,900.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 168.77          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,498.78             | 5,286.65              | 212.13                  | 25.922            |                            |         |
| 17,000.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 170.77          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,588.53             | 5,376.63              | 211.90                  | 26.374            |                            |         |
| 17,100.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 172.78          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,678.62             | 5,466.95              | 211.67                  | 26.827            |                            |         |
| 17,200.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 174.79          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,769.04             | 5,557.59              | 211.45                  | 27.283            |                            |         |
| 17,300.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 176.81          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,859.77             | 5,648.53              | 211.24                  | 27.740            |                            |         |
| 17,400.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 178.82          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,950.80             | 5,739.77              | 211.03                  | 28.199            |                            |         |
| 17,500.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 180.83          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,042.11             | 5,831.29              | 210.82                  | 28.660            |                            |         |
| 17,600.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 182.84          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,133.69             | 5,923.07              | 210.62                  | 29.122            |                            |         |
| 17,700.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 184.86          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,225.53             | 6,015.11              | 210.42                  | 29.586            |                            |         |
| 17,800.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 186.87          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,317.62             | 6,107.39              | 210.23                  | 30.051            |                            |         |
| 17,900.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 188.89          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,409.95             | 6,199.90              | 210.05                  | 30.517            |                            |         |
| 18,000.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 190.91          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,502.50             | 6,292.64              | 209.87                  | 30.984            |                            |         |
| 18,100.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 192.92          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,595.27             | 6,385.58              | 209.69                  | 31.452            |                            |         |
| 18,200.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 194.94          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,688.25             | 6,478.73              | 209.52                  | 31.922            |                            |         |
| 18,300.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 196.96          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,781.43             | 6,572.08              | 209.35                  | 32.392            |                            |         |
| 18,400.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 198.98          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,874.80             | 6,665.61              | 209.19                  | 32.864            |                            |         |
| 18,500.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 201.00          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,968.36             | 6,759.32              | 209.03                  | 33.336            |                            |         |
| 18,600.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 203.02          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 7,062.09             | 6,853.21              | 208.88                  | 33.810            |                            |         |
| 18,700.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 205.04          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 7,155.99             | 6,947.26              | 208.73                  | 34.284            |                            |         |
| 18,800.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 207.06          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 7,250.05             | 7,041.47              | 208.58                  | 34.758            |                            |         |
| 18,900.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 209.08          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 7,344.27             | 7,135.83              | 208.44                  | 35.234            |                            |         |
| 19,000.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 211.10          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 7,438.64             | 7,230.34              | 208.31                  | 35.710            |                            |         |
| 19,100.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 213.12          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 7,533.16             | 7,324.99              | 208.17                  | 36.187            |                            |         |
| 19,200.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 215.15          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 7,627.82             | 7,419.77              | 208.04                  | 36.664            |                            |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b>   |                        | Sec 14-T21S-R27E - Lonetree 14 State Com #001 - Wellbore #1 - Wellbore #1 |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 0.00 ft |
|------------------------|------------------------|---------------------------------------------------------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|---------|
| <b>Survey Program:</b> |                        | 10-INC-ONLY                                                               |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 0.50 ft |
| Reference              |                        | Offset                                                                    |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                           | Warning |
| Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Measured Depth<br>(ft)                                                    | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |         |
| 19,308.27              | 8,835.00               | 8,785.20                                                                  | 8,785.20               | 217.34            | 131.42         | 90.00                       | -1,411.08                               | 3,068.40      | 7,730.45                   | 7,522.54                    | 207.91                        | 37.182                    |         |



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft   |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|-----------|
| Survey Program: 5-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 150.00 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning   |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |           |
| 0.00                       | 0.00                | 0.00                | 0.00                | 0.50            | 150.00      | 31.35                 | 2,234.63                          | 1,361.57   | 2,616.86             |                       |                         |                   |                    |           |
| 100.00                     | 100.00              | 77.20               | 77.20               | 0.52            | 150.00      | 31.35                 | 2,234.63                          | 1,361.57   | 2,616.76             | 2,466.24              | 150.52                  | 17.385            |                    |           |
| 200.00                     | 200.00              | 177.20              | 177.20              | 0.70            | 150.02      | 31.35                 | 2,234.63                          | 1,361.57   | 2,616.76             | 2,466.04              | 150.72                  | 17.361            |                    |           |
| 300.00                     | 300.00              | 277.20              | 277.20              | 0.99            | 150.05      | 31.35                 | 2,234.63                          | 1,361.57   | 2,616.76             | 2,465.72              | 151.04                  | 17.325            |                    |           |
| 400.00                     | 400.00              | 377.20              | 377.20              | 1.31            | 150.10      | 31.35                 | 2,234.63                          | 1,361.57   | 2,616.76             | 2,465.35              | 151.41                  | 17.283            |                    |           |
| 500.00                     | 500.00              | 477.20              | 477.20              | 1.65            | 150.16      | 31.35                 | 2,234.63                          | 1,361.57   | 2,616.76             | 2,464.95              | 151.81                  | 17.237            |                    |           |
| 600.00                     | 600.00              | 577.20              | 577.20              | 1.99            | 150.24      | 31.35                 | 2,234.63                          | 1,361.57   | 2,616.76             | 2,464.53              | 152.23                  | 17.190 CC, ES     |                    |           |
| 700.00                     | 700.00              | 563.00              | 562.89              | 2.34            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,619.26             | 2,466.83              | 152.42                  | 17.184 SF         |                    |           |
| 800.00                     | 800.00              | 563.00              | 562.89              | 2.69            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,625.52             | 2,473.11              | 152.41                  | 17.226            |                    |           |
| 900.00                     | 900.00              | 563.00              | 562.89              | 3.04            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,635.57             | 2,483.38              | 152.19                  | 17.317            |                    |           |
| 1,000.00                   | 1,000.00            | 563.00              | 562.89              | 3.40            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,649.36             | 2,497.60              | 151.76                  | 17.458            |                    |           |
| 1,100.00                   | 1,100.00            | 563.00              | 562.89              | 3.75            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,666.82             | 2,515.70              | 151.12                  | 17.647            |                    |           |
| 1,200.00                   | 1,200.00            | 563.00              | 562.89              | 4.11            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,687.90             | 2,537.60              | 150.30                  | 17.884            |                    |           |
| 1,300.00                   | 1,300.00            | 563.00              | 562.89              | 4.46            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,712.50             | 2,563.21              | 149.29                  | 18.169            |                    |           |
| 1,400.00                   | 1,400.00            | 563.00              | 562.89              | 4.82            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,740.54             | 2,592.41              | 148.12                  | 18.502            |                    |           |
| 1,500.00                   | 1,500.00            | 563.00              | 562.89              | 5.18            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,771.89             | 2,625.09              | 146.80                  | 18.882            |                    |           |
| 1,600.00                   | 1,600.00            | 563.00              | 562.89              | 5.53            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,806.47             | 2,661.12              | 145.34                  | 19.309            |                    |           |
| 1,700.00                   | 1,700.00            | 563.00              | 562.89              | 5.89            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,844.14             | 2,700.37              | 143.77                  | 19.783            |                    |           |
| 1,800.00                   | 1,800.00            | 563.00              | 562.89              | 6.25            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,884.79             | 2,742.70              | 142.09                  | 20.303            |                    |           |
| 1,900.00                   | 1,900.00            | 563.00              | 562.89              | 6.61            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,928.28             | 2,787.96              | 140.32                  | 20.868            |                    |           |
| 2,000.00                   | 2,000.00            | 563.00              | 562.89              | 6.96            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,974.51             | 2,836.03              | 138.48                  | 21.479            |                    |           |
| 2,100.00                   | 2,099.99            | 563.00              | 562.89              | 7.32            | 150.23      | 43.75                 | 2,234.63                          | 1,361.57   | 3,022.79             | 2,886.22              | 136.58                  | 22.132            |                    |           |
| 2,200.00                   | 2,199.96            | 563.00              | 562.89              | 7.68            | 150.23      | 43.36                 | 2,234.63                          | 1,361.57   | 3,072.49             | 2,937.89              | 134.61                  | 22.826            |                    |           |
| 2,300.00                   | 2,299.86            | 563.00              | 562.89              | 8.04            | 150.23      | 42.95                 | 2,234.63                          | 1,361.57   | 3,123.52             | 2,990.94              | 132.58                  | 23.559            |                    |           |
| 2,400.00                   | 2,399.68            | 563.00              | 562.89              | 8.39            | 150.23      | 42.53                 | 2,234.63                          | 1,361.57   | 3,175.81             | 3,045.29              | 130.52                  | 24.333            |                    |           |
| 2,500.00                   | 2,499.37            | 563.00              | 562.89              | 8.75            | 150.23      | 42.11                 | 2,234.63                          | 1,361.57   | 3,229.27             | 3,100.85              | 128.41                  | 25.147            |                    |           |
| 2,600.00                   | 2,598.90            | 563.00              | 562.89              | 9.11            | 150.23      | 41.67                 | 2,234.63                          | 1,361.57   | 3,283.83             | 3,157.55              | 126.28                  | 26.004            |                    |           |
| 2,700.00                   | 2,698.26            | 563.00              | 562.89              | 9.46            | 150.23      | 41.23                 | 2,234.63                          | 1,361.57   | 3,339.43             | 3,215.30              | 124.13                  | 26.902            |                    |           |
| 2,800.00                   | 2,797.40            | 563.00              | 562.89              | 9.82            | 150.23      | 40.78                 | 2,234.63                          | 1,361.57   | 3,396.00             | 3,274.03              | 121.97                  | 27.844            |                    |           |
| 2,900.00                   | 2,896.30            | 563.00              | 562.89              | 10.18           | 150.23      | 40.32                 | 2,234.63                          | 1,361.57   | 3,453.46             | 3,333.67              | 119.79                  | 28.829            |                    |           |
| 3,000.00                   | 2,994.93            | 563.00              | 562.89              | 10.54           | 150.23      | 39.86                 | 2,234.63                          | 1,361.57   | 3,511.77             | 3,394.16              | 117.61                  | 29.859            |                    |           |
| 3,100.00                   | 3,093.26            | 563.00              | 562.89              | 10.90           | 150.23      | 39.40                 | 2,234.63                          | 1,361.57   | 3,570.86             | 3,455.42              | 115.43                  | 30.934            |                    |           |
| 3,195.07                   | 3,186.42            | 563.00              | 562.89              | 11.24           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 3,627.70             | 3,514.33              | 113.37                  | 31.999            |                    |           |
| 3,200.00                   | 3,191.25            | 563.00              | 562.89              | 11.26           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 3,630.67             | 3,517.41              | 113.26                  | 32.056            |                    |           |
| 3,300.00                   | 3,289.08            | 563.00              | 562.89              | 11.62           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 3,691.75             | 3,580.64              | 111.11                  | 33.226            |                    |           |
| 3,400.00                   | 3,386.91            | 563.00              | 562.89              | 11.98           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 3,754.49             | 3,645.50              | 108.99                  | 34.448            |                    |           |
| 3,500.00                   | 3,484.74            | 563.00              | 562.89              | 12.35           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 3,818.83             | 3,711.92              | 106.91                  | 35.721            |                    |           |
| 3,600.00                   | 3,582.58            | 563.00              | 562.89              | 12.72           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 3,884.67             | 3,779.81              | 104.86                  | 37.047            |                    |           |
| 3,700.00                   | 3,680.41            | 563.00              | 562.89              | 13.09           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 3,951.95             | 3,849.10              | 102.85                  | 38.424            |                    |           |
| 3,800.00                   | 3,778.24            | 563.00              | 562.89              | 13.46           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,020.59             | 3,919.70              | 100.88                  | 39.854            |                    |           |
| 3,900.00                   | 3,876.08            | 563.00              | 562.89              | 13.83           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,090.52             | 3,991.56              | 98.96                   | 41.334            |                    |           |
| 4,000.00                   | 3,973.91            | 563.00              | 562.89              | 14.21           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,161.68             | 4,064.59              | 97.09                   | 42.866            |                    |           |
| 4,100.00                   | 4,071.74            | 563.00              | 562.89              | 14.58           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,234.00             | 4,138.75              | 95.25                   | 44.450            |                    |           |
| 4,200.00                   | 4,169.57            | 563.00              | 562.89              | 14.96           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,307.44             | 4,213.97              | 93.47                   | 46.084            |                    |           |
| 4,300.00                   | 4,267.41            | 563.00              | 562.89              | 15.33           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,381.92             | 4,290.19              | 91.73                   | 47.768            |                    |           |
| 4,400.00                   | 4,365.24            | 563.00              | 562.89              | 15.71           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,457.41             | 4,367.36              | 90.04                   | 49.503            |                    |           |
| 4,500.00                   | 4,463.07            | 563.00              | 562.89              | 16.09           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,533.84             | 4,445.44              | 88.40                   | 51.287            |                    |           |
| 4,600.00                   | 4,560.90            | 563.00              | 562.89              | 16.47           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,611.17             | 4,524.37              | 86.81                   | 53.121            |                    |           |
| 4,700.00                   | 4,658.74            | 563.00              | 562.89              | 16.85           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,689.36             | 4,604.11              | 85.26                   | 55.003            |                    |           |
| 4,800.00                   | 4,756.57            | 563.00              | 562.89              | 17.23           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,768.37             | 4,684.62              | 83.75                   | 56.933            |                    |           |
| 4,900.00                   | 4,854.40            | 563.00              | 562.89              | 17.61           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,848.15             | 4,765.86              | 82.30                   | 58.910            |                    |           |
| 5,000.00                   | 4,952.23            | 563.00              | 562.89              | 17.99           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,928.67             | 4,847.79              | 80.89                   | 60.934            |                    |           |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |                                   |                      |                       |                         |                   | Offset Site Error: | 0.00 ft   |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|-----------------------------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|-----------|
| Survey Program: 5-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |                                   |                      |                       |                         |                   | Offset Well Error: | 150.00 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |                                   |                      |                       |                         |                   | Warning            |           |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |           |
| 5,100.00                   | 5,050.07            | 563.00              | 562.89              | 18.37           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 5,009.89             | 4,930.38              | 79.52                   | 63.003            |                    |           |
| 5,200.00                   | 5,147.90            | 563.00              | 562.89              | 18.75           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 5,091.78             | 5,013.59              | 78.19                   | 65.117            |                    |           |
| 5,300.00                   | 5,245.73            | 563.00              | 562.89              | 19.14           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 5,174.31             | 5,097.40              | 76.91                   | 67.275            |                    |           |
| 5,400.00                   | 5,343.56            | 563.00              | 562.89              | 19.52           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 5,257.44             | 5,181.77              | 75.67                   | 69.476            |                    |           |
| 5,500.00                   | 5,441.40            | 563.00              | 562.89              | 19.90           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 5,341.15             | 5,266.68              | 74.47                   | 71.718            |                    |           |
| 5,600.00                   | 5,539.23            | 563.00              | 562.89              | 20.29           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 5,425.42             | 5,352.10              | 73.32                   | 74.001            |                    |           |
| 5,700.00                   | 5,637.06            | 563.00              | 562.89              | 20.67           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 5,510.21             | 5,438.01              | 72.20                   | 76.323            |                    |           |
| 5,800.00                   | 5,734.90            | 563.00              | 562.89              | 21.05           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 5,595.50             | 5,524.38              | 71.11                   | 78.683            |                    |           |
| 5,900.00                   | 5,832.73            | 563.00              | 562.89              | 21.44           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 5,681.27             | 5,611.20              | 70.07                   | 81.080            |                    |           |
| 6,000.00                   | 5,930.56            | 563.00              | 562.89              | 21.83           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 5,767.50             | 5,698.44              | 69.06                   | 83.511            |                    |           |
| 6,100.00                   | 6,028.39            | 563.00              | 562.89              | 22.21           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 5,854.17             | 5,786.08              | 68.09                   | 85.977            |                    |           |
| 6,200.00                   | 6,126.23            | 563.00              | 562.89              | 22.60           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 5,941.25             | 5,874.10              | 67.15                   | 88.474            |                    |           |
| 6,300.00                   | 6,224.06            | 563.00              | 562.89              | 22.98           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 6,028.74             | 5,962.49              | 66.25                   | 91.002            |                    |           |
| 6,400.00                   | 6,321.89            | 563.00              | 562.89              | 23.37           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 6,116.61             | 6,051.23              | 65.38                   | 93.558            |                    |           |
| 6,500.00                   | 6,419.72            | 563.00              | 562.89              | 23.76           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 6,204.85             | 6,140.31              | 64.54                   | 96.141            |                    |           |
| 6,600.00                   | 6,517.56            | 563.00              | 562.89              | 24.14           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 6,293.44             | 6,229.71              | 63.73                   | 98.749            |                    |           |
| 6,700.00                   | 6,615.39            | 563.00              | 562.89              | 24.53           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 6,382.37             | 6,319.41              | 62.95                   | 101.381           |                    |           |
| 6,800.00                   | 6,713.22            | 563.00              | 562.89              | 24.92           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 6,471.62             | 6,409.41              | 62.21                   | 104.034           |                    |           |
| 6,900.00                   | 6,811.05            | 563.00              | 562.89              | 25.30           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 6,561.18             | 6,499.69              | 61.49                   | 106.706           |                    |           |
| 7,000.00                   | 6,908.89            | 563.00              | 562.89              | 25.69           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 6,651.04             | 6,590.24              | 60.80                   | 109.396           |                    |           |
| 7,100.00                   | 7,006.72            | 563.00              | 562.89              | 26.08           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 6,741.18             | 6,681.05              | 60.14                   | 112.100           |                    |           |
| 7,200.00                   | 7,104.55            | 563.00              | 562.89              | 26.47           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 6,831.60             | 6,772.10              | 59.50                   | 114.818           |                    |           |
| 7,216.87                   | 7,121.05            | 563.00              | 562.89              | 26.53           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 6,846.88             | 6,787.48              | 59.39                   | 115.278           |                    |           |
| 7,300.00                   | 7,202.57            | 563.00              | 562.89              | 26.85           | 150.23      | 40.71                 | 2,234.63                          | 1,361.57                          | 6,922.57             | 6,863.67              | 58.90                   | 117.537           |                    |           |
| 7,400.00                   | 7,301.06            | 563.00              | 562.89              | 27.23           | 150.23      | 43.06                 | 2,234.63                          | 1,361.57                          | 7,014.56             | 6,956.23              | 58.34                   | 120.239           |                    |           |
| 7,500.00                   | 7,399.97            | 563.00              | 562.89              | 27.61           | 150.23      | 45.70                 | 2,234.63                          | 1,361.57                          | 7,107.49             | 7,049.67              | 57.82                   | 122.921           |                    |           |
| 7,600.00                   | 7,499.23            | 563.00              | 562.89              | 27.98           | 150.23      | 48.67                 | 2,234.63                          | 1,361.57                          | 7,201.26             | 7,143.91              | 57.35                   | 125.577           |                    |           |
| 7,700.00                   | 7,598.77            | 563.00              | 562.89              | 28.34           | 150.23      | 52.00                 | 2,234.63                          | 1,361.57                          | 7,295.76             | 7,238.86              | 56.91                   | 128.204           |                    |           |
| 7,800.00                   | 7,698.53            | 563.00              | 562.89              | 28.70           | 150.23      | 55.75                 | 2,234.63                          | 1,361.57                          | 7,390.92             | 7,334.41              | 56.51                   | 130.796           |                    |           |
| 7,900.00                   | 7,798.44            | 563.00              | 562.89              | 29.05           | 150.23      | 59.95                 | 2,234.63                          | 1,361.57                          | 7,486.63             | 7,430.49              | 56.14                   | 133.347           |                    |           |
| 8,000.00                   | 7,898.42            | 563.00              | 562.89              | 29.39           | 150.23      | 64.62                 | 2,234.63                          | 1,361.57                          | 7,582.82             | 7,527.00              | 55.82                   | 135.853           |                    |           |
| 8,013.58                   | 7,912.00            | 563.00              | 562.89              | 29.43           | 150.23      | 52.51                 | 2,234.63                          | 1,361.57                          | 7,595.91             | 7,540.14              | 55.77                   | 136.189           |                    |           |
| 8,100.00                   | 7,998.42            | 563.00              | 562.89              | 29.73           | 150.23      | 52.51                 | 2,234.63                          | 1,361.57                          | 7,679.30             | 7,623.79              | 55.52                   | 138.325           |                    |           |
| 8,200.00                   | 8,098.42            | 563.00              | 562.89              | 30.07           | 150.23      | 52.51                 | 2,234.63                          | 1,361.57                          | 7,775.87             | 7,720.64              | 55.23                   | 140.785           |                    |           |
| 8,300.00                   | 8,198.42            | 563.00              | 562.89              | 30.41           | 150.23      | 52.51                 | 2,234.63                          | 1,361.57                          | 7,872.53             | 7,817.57              | 54.96                   | 143.232           |                    |           |
| 8,363.62                   | 8,262.04            | 563.00              | 562.89              | 30.62           | 150.23      | 52.51                 | 2,234.63                          | 1,361.57                          | 7,934.07             | 7,879.27              | 54.80                   | 144.782           |                    |           |
| 8,400.00                   | 8,298.40            | 563.00              | 562.89              | 30.75           | 150.23      | -30.16                | 2,234.63                          | 1,361.57                          | 7,969.02             | 7,914.33              | 54.69                   | 145.710           |                    |           |
| 8,450.00                   | 8,348.10            | 563.00              | 562.89              | 30.91           | 150.23      | -23.85                | 2,234.63                          | 1,361.57                          | 8,016.06             | 7,961.57              | 54.49                   | 147.113           |                    |           |
| 8,500.00                   | 8,397.14            | 563.00              | 562.89              | 31.07           | 150.23      | -19.71                | 2,234.63                          | 1,361.57                          | 8,061.66             | 8,007.43              | 54.23                   | 148.651           |                    |           |
| 8,550.00                   | 8,445.15            | 563.00              | 562.89              | 31.23           | 150.23      | -16.85                | 2,234.63                          | 1,361.57                          | 8,105.50             | 8,051.57              | 53.92                   | 150.314           |                    |           |
| 8,600.00                   | 8,491.77            | 563.00              | 562.89              | 31.38           | 150.23      | -14.78                | 2,234.63                          | 1,361.57                          | 8,147.26             | 8,093.69              | 53.57                   | 152.092           |                    |           |
| 8,650.00                   | 8,536.65            | 563.00              | 562.89              | 31.52           | 150.23      | -13.23                | 2,234.63                          | 1,361.57                          | 8,186.67             | 8,133.50              | 53.17                   | 153.975           |                    |           |
| 8,700.00                   | 8,579.43            | 563.00              | 562.89              | 31.66           | 150.23      | -12.04                | 2,234.63                          | 1,361.57                          | 8,223.46             | 8,170.73              | 52.73                   | 155.949           |                    |           |
| 8,750.00                   | 8,619.80            | 563.00              | 562.89              | 31.80           | 150.23      | -11.11                | 2,234.63                          | 1,361.57                          | 8,257.40             | 8,205.14              | 52.26                   | 158.002           |                    |           |
| 8,800.00                   | 8,657.44            | 563.00              | 562.89              | 31.93           | 150.23      | -10.38                | 2,234.63                          | 1,361.57                          | 8,288.25             | 8,236.49              | 51.76                   | 160.119           |                    |           |
| 8,850.00                   | 8,692.08            | 563.00              | 562.89              | 32.06           | 150.23      | -9.80                 | 2,234.63                          | 1,361.57                          | 8,315.82             | 8,264.58              | 51.24                   | 162.281           |                    |           |
| 8,900.00                   | 8,723.44            | 563.00              | 562.89              | 32.19           | 150.23      | -9.34                 | 2,234.63                          | 1,361.57                          | 8,339.94             | 8,289.23              | 50.71                   | 164.470           |                    |           |
| 8,950.00                   | 8,751.29            | 563.00              | 562.89              | 32.34           | 150.23      | -8.98                 | 2,234.63                          | 1,361.57                          | 8,360.44             | 8,310.28              | 50.16                   | 166.663           |                    |           |
| 9,000.00                   | 8,775.42            | 563.00              | 562.89              | 32.50           | 150.23      | -8.71                 | 2,234.63                          | 1,361.57                          | 8,377.21             | 8,327.59              | 49.62                   | 168.838           |                    |           |
| 9,050.00                   | 8,795.64            | 563.00              | 562.89              | 32.67           | 150.23      | -8.51                 | 2,234.63                          | 1,361.57                          | 8,390.13             | 8,341.05              | 49.07                   | 170.969           |                    |           |
| 9,100.00                   | 8,811.80            | 563.00              | 562.89              | 32.87           | 150.23      | -8.37                 | 2,234.63                          | 1,361.57                          | 8,399.12             | 8,350.58              | 48.54                   | 173.032           |                    |           |
| 9,150.00                   | 8,823.77            | 563.00              | 562.89              | 33.10           | 150.23      | -8.30                 | 2,234.63                          | 1,361.57                          | 8,404.14             | 8,356.12              | 48.02                   | 175.000           |                    |           |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft   |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|-----------|
| Survey Program: 5-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 150.00 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |           |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |           |
| 9,200.00                   | 8,831.47            | 563.00              | 562.89              | 33.34           | 150.23      | -8.29                 | 2,234.63                          | 1,361.57   | 8,405.14             | 8,357.62              | 47.53                   | 176.847           |                    |           |
| 9,250.00                   | 8,834.84            | 563.00              | 562.89              | 33.60           | 150.23      | -8.33                 | 2,234.63                          | 1,361.57   | 8,402.13             | 8,355.07              | 47.06                   | 178.548           |                    |           |
| 9,263.62                   | 8,835.00            | 563.00              | 562.89              | 33.67           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,400.62             | 8,353.68              | 46.94                   | 178.979           |                    |           |
| 9,300.00                   | 8,835.00            | 563.00              | 562.89              | 33.88           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,396.25             | 8,349.63              | 46.62                   | 180.114           |                    |           |
| 9,400.00                   | 8,835.00            | 563.00              | 562.89              | 34.53           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,385.05             | 8,339.25              | 45.81                   | 183.045           |                    |           |
| 9,500.00                   | 8,835.00            | 563.00              | 562.89              | 35.30           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,375.04             | 8,329.92              | 45.11                   | 185.638           |                    |           |
| 9,600.00                   | 8,835.00            | 563.00              | 562.89              | 36.17           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,366.20             | 8,321.66              | 44.54                   | 187.824           |                    |           |
| 9,700.00                   | 8,835.00            | 563.00              | 562.89              | 37.13           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,358.56             | 8,314.45              | 44.10                   | 189.531           |                    |           |
| 9,800.00                   | 8,835.00            | 563.00              | 562.89              | 38.18           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,352.10             | 8,308.30              | 43.80                   | 190.693           |                    |           |
| 9,900.00                   | 8,835.00            | 563.00              | 562.89              | 39.31           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,346.84             | 8,303.19              | 43.64                   | 191.249           |                    |           |
| 10,000.00                  | 8,835.00            | 563.00              | 562.89              | 40.51           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,342.77             | 8,299.12              | 43.64                   | 191.155           |                    |           |
| 10,100.00                  | 8,835.00            | 563.00              | 562.89              | 41.78           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,339.90             | 8,296.09              | 43.81                   | 190.383           |                    |           |
| 10,200.00                  | 8,835.00            | 563.00              | 562.89              | 43.10           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,338.22             | 8,294.09              | 44.13                   | 188.931           |                    |           |
| 10,289.48                  | 8,835.00            | 563.00              | 562.89              | 44.34           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,337.74             | 8,293.17              | 44.57                   | 187.071           |                    |           |
| 10,300.00                  | 8,835.00            | 563.00              | 562.89              | 44.49           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,337.75             | 8,293.12              | 44.63                   | 186.823           |                    |           |
| 10,400.00                  | 8,835.00            | 563.00              | 562.89              | 45.92           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,338.48             | 8,293.18              | 45.29                   | 184.108           |                    |           |
| 10,500.00                  | 8,835.00            | 563.00              | 562.89              | 47.39           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,340.40             | 8,294.28              | 46.12                   | 180.856           |                    |           |
| 10,600.00                  | 8,835.00            | 563.00              | 562.89              | 48.91           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,343.52             | 8,296.43              | 47.10                   | 177.155           |                    |           |
| 10,700.00                  | 8,835.00            | 563.00              | 562.89              | 50.47           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,347.84             | 8,299.62              | 48.23                   | 173.101           |                    |           |
| 10,800.00                  | 8,835.00            | 563.00              | 562.89              | 52.06           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,353.36             | 8,303.87              | 49.49                   | 168.790           |                    |           |
| 10,900.00                  | 8,835.00            | 563.00              | 562.89              | 53.68           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,360.07             | 8,309.19              | 50.88                   | 164.316           |                    |           |
| 11,000.00                  | 8,835.00            | 563.00              | 562.89              | 55.32           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,367.96             | 8,315.58              | 52.38                   | 159.760           |                    |           |
| 11,100.00                  | 8,835.00            | 563.00              | 562.89              | 57.00           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,377.05             | 8,323.07              | 53.98                   | 155.193           |                    |           |
| 11,200.00                  | 8,835.00            | 563.00              | 562.89              | 58.70           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,387.31             | 8,331.65              | 55.67                   | 150.673           |                    |           |
| 11,300.00                  | 8,835.00            | 563.00              | 562.89              | 60.41           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,398.76             | 8,341.33              | 57.43                   | 146.245           |                    |           |
| 11,400.00                  | 8,835.00            | 563.00              | 562.89              | 62.15           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,411.37             | 8,352.12              | 59.26                   | 141.942           |                    |           |
| 11,500.00                  | 8,835.00            | 563.00              | 562.89              | 63.91           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,425.16             | 8,364.02              | 61.15                   | 137.789           |                    |           |
| 11,600.00                  | 8,835.00            | 563.00              | 562.89              | 65.69           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,440.11             | 8,377.03              | 63.08                   | 133.802           |                    |           |
| 11,700.00                  | 8,835.00            | 563.00              | 562.89              | 67.47           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,456.21             | 8,391.16              | 65.05                   | 129.989           |                    |           |
| 11,800.00                  | 8,835.00            | 563.00              | 562.89              | 69.28           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,473.47             | 8,406.41              | 67.06                   | 126.356           |                    |           |
| 11,900.00                  | 8,835.00            | 563.00              | 562.89              | 71.09           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,491.86             | 8,422.77              | 69.09                   | 122.903           |                    |           |
| 12,000.00                  | 8,835.00            | 563.00              | 562.89              | 72.92           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,511.40             | 8,440.25              | 71.15                   | 119.627           |                    |           |
| 12,100.00                  | 8,835.00            | 563.00              | 562.89              | 74.76           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,532.05             | 8,458.83              | 73.22                   | 116.524           |                    |           |
| 12,200.00                  | 8,835.00            | 563.00              | 562.89              | 76.61           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,553.83             | 8,478.53              | 75.31                   | 113.588           |                    |           |
| 12,300.00                  | 8,835.00            | 563.00              | 562.89              | 78.47           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,576.72             | 8,499.32              | 77.40                   | 110.813           |                    |           |
| 12,400.00                  | 8,835.00            | 563.00              | 562.89              | 80.34           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,600.71             | 8,521.22              | 79.49                   | 108.192           |                    |           |
| 12,500.00                  | 8,835.00            | 563.00              | 562.89              | 82.22           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,625.80             | 8,544.20              | 81.59                   | 105.717           |                    |           |
| 12,600.00                  | 8,835.00            | 563.00              | 562.89              | 84.11           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,651.96             | 8,568.27              | 83.69                   | 103.380           |                    |           |
| 12,700.00                  | 8,835.00            | 563.00              | 562.89              | 86.00           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,679.20             | 8,593.42              | 85.78                   | 101.175           |                    |           |
| 12,800.00                  | 8,835.00            | 563.00              | 562.89              | 87.90           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,707.51             | 8,619.64              | 87.87                   | 99.094            |                    |           |
| 12,900.00                  | 8,835.00            | 563.00              | 562.89              | 89.81           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,736.86             | 8,646.91              | 89.95                   | 97.130            |                    |           |
| 13,000.00                  | 8,835.00            | 563.00              | 562.89              | 91.72           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,767.26             | 8,675.24              | 92.02                   | 95.276            |                    |           |
| 13,100.00                  | 8,835.00            | 563.00              | 562.89              | 93.64           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,798.69             | 8,704.62              | 94.08                   | 93.526            |                    |           |
| 13,200.00                  | 8,835.00            | 563.00              | 562.89              | 95.56           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,831.14             | 8,735.02              | 96.12                   | 91.875            |                    |           |
| 13,300.00                  | 8,835.00            | 563.00              | 562.89              | 97.49           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,864.60             | 8,766.45              | 98.15                   | 90.316            |                    |           |
| 13,400.00                  | 8,835.00            | 563.00              | 562.89              | 99.42           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,899.06             | 8,798.90              | 100.17                  | 88.844            |                    |           |
| 13,500.00                  | 8,835.00            | 563.00              | 562.89              | 101.36          | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,934.51             | 8,832.34              | 102.16                  | 87.454            |                    |           |
| 13,600.00                  | 8,835.00            | 563.00              | 562.89              | 103.30          | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,970.93             | 8,866.78              | 104.14                  | 86.141            |                    |           |
| 13,700.00                  | 8,835.00            | 563.00              | 562.89              | 105.25          | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 9,008.31             | 8,902.21              | 106.10                  | 84.902            |                    |           |
| 13,800.00                  | 8,835.00            | 563.00              | 562.89              | 107.20          | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 9,046.64             | 8,938.60              | 108.04                  | 83.732            |                    |           |
| 13,900.00                  | 8,835.00            | 563.00              | 562.89              | 109.15          | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 9,085.91             | 8,975.95              | 109.96                  | 82.626            |                    |           |
| 14,000.00                  | 8,835.00            | 563.00              | 562.89              | 111.10          | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 9,126.11             | 9,014.25              | 111.86                  | 81.582            |                    |           |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Magnolia State 2 (P&A) - Wellbore #1 - Wellbore #1 |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 0.00 ft   |
|--------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|-----------|
| Survey Program: 5-INC-ONLY                                                                 |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 150.00 ft |
| Reference                                                                                  |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                           | Warning   |
| Measured Depth<br>(ft)                                                                     | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |           |
| 14,100.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 113.06            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,167.23                   | 9,053.48                    | 113.74                        | 80.596                    |           |
| 14,200.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 115.03            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,209.24                   | 9,093.64                    | 115.60                        | 79.665                    |           |
| 14,300.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 116.99            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,252.15                   | 9,134.72                    | 117.43                        | 78.786                    |           |
| 14,400.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 118.96            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,295.93                   | 9,176.69                    | 119.25                        | 77.956                    |           |
| 14,500.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 120.93            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,340.58                   | 9,219.55                    | 121.03                        | 77.173                    |           |
| 14,600.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 122.90            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,386.08                   | 9,263.29                    | 122.80                        | 76.435                    |           |
| 14,700.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 124.88            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,432.43                   | 9,307.89                    | 124.54                        | 75.738                    |           |
| 14,800.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 126.86            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,479.60                   | 9,353.34                    | 126.26                        | 75.081                    |           |
| 14,900.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 128.84            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,527.59                   | 9,399.63                    | 127.95                        | 74.462                    |           |
| 15,000.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 130.82            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,576.38                   | 9,446.75                    | 129.62                        | 73.878                    |           |
| 15,100.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 132.80            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,625.96                   | 9,494.69                    | 131.27                        | 73.329                    |           |
| 15,200.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 134.79            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,676.32                   | 9,543.43                    | 132.89                        | 72.813                    |           |
| 15,300.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 136.78            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,727.45                   | 9,592.96                    | 134.49                        | 72.328                    |           |
| 15,400.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 138.76            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,779.34                   | 9,643.27                    | 136.07                        | 71.872                    |           |
| 15,500.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 140.76            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,831.96                   | 9,694.35                    | 137.62                        | 71.445                    |           |
| 15,600.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 142.75            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,885.32                   | 9,746.18                    | 139.14                        | 71.044                    |           |
| 15,700.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 144.74            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,939.40                   | 9,798.76                    | 140.65                        | 70.669                    |           |
| 15,800.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 146.74            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,994.19                   | 9,852.06                    | 142.13                        | 70.319                    |           |

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

Reference Depths are relative to RKB @ 3269.80ft

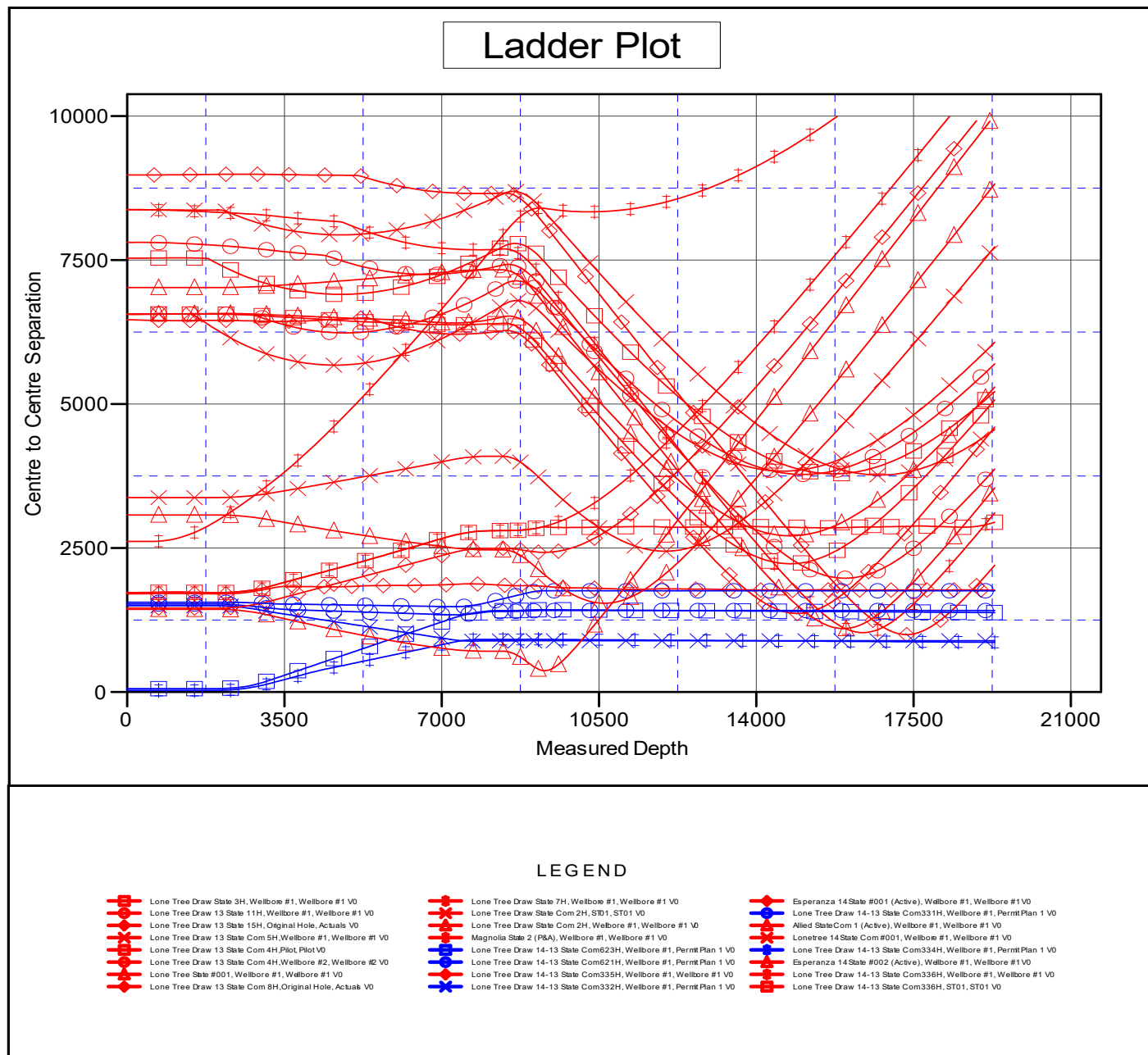
Offset Depths are relative to Offset Datum

Central Meridian is -104.333334

Coordinates are relative to: Lone Tree Draw 14-13 State Com 333H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.09°



CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

Reference Depths are relative to RKB @ 3269.80ft

Offset Depths are relative to Offset Datum

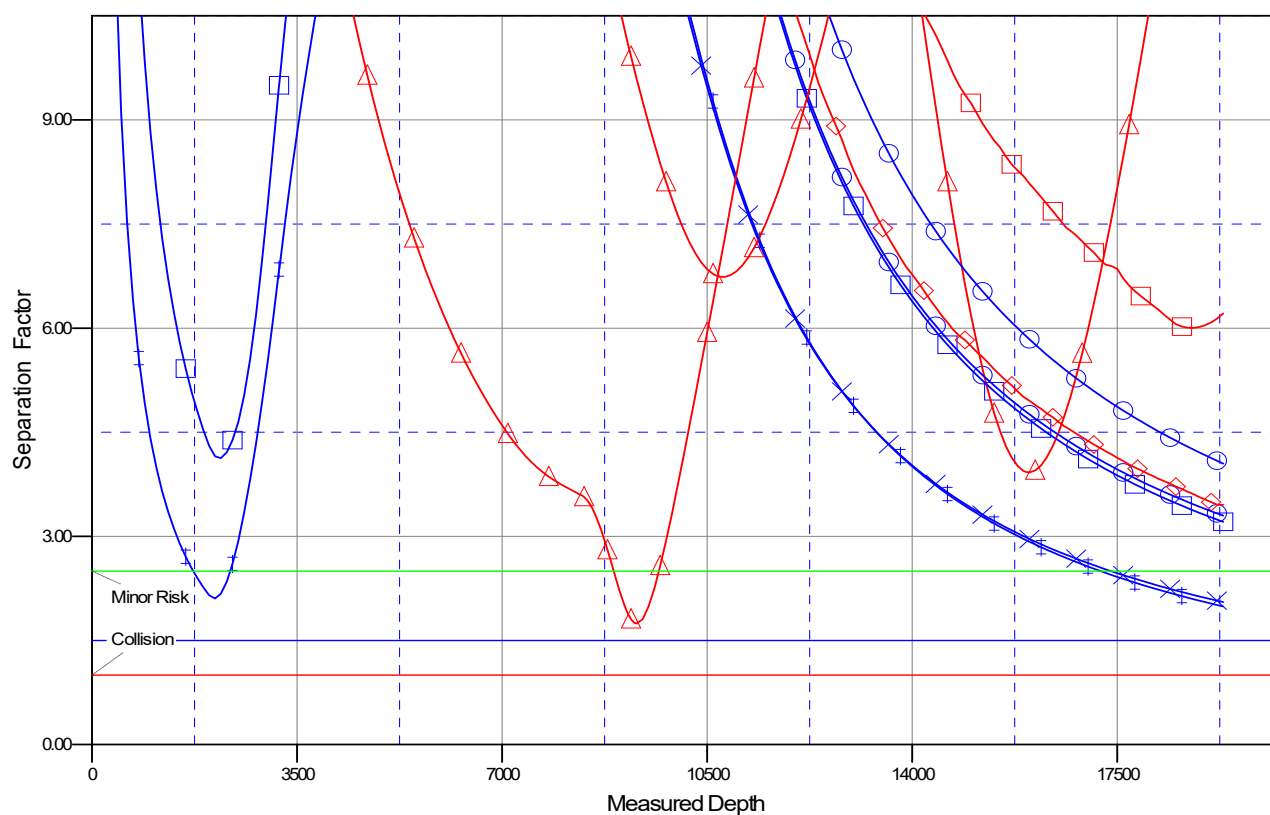
Central Meridian is -104.333334

Coordinates are relative to: Lone Tree Draw 14-13 State Com 333H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.09°

### Separation Factor Plot



#### LEGEND

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Lone Tree Draw State 3H, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 13 State 11H, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 13 State 15H, Original Hole, Actual V0</li> <li>Lone Tree Draw 13 State Com 5H, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 13 State Com 4H, Plot Plot V0</li> <li>Lone Tree Draw 13 State Com 4H, Wellbore #2, Wellbore #2 V0</li> <li>Lone Tree State #001, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 13 State Com 8H, Original Hole, Actual V0</li> </ul> | <ul style="list-style-type: none"> <li>Lone Tree Draw State 7H, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw State Com 2H, ST01, ST01 V0</li> <li>Lone Tree Draw State Com 2H, Wellbore #1, Wellbore #1 V0</li> <li>Magnolia State 2 (P&amp;A), Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 14-13 State Com 623H, Wellbore #1, Permit Plan 1 V0</li> <li>Lone Tree Draw 14-13 State Com 621H, Wellbore #1, Permit Plan 1 V0</li> <li>Lone Tree Draw 14-13 State Com 335H, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 14-13 State Com 332H, Wellbore #1, Permit Plan 1 V0</li> </ul> | <ul style="list-style-type: none"> <li>Esperanza 14 State #001 (Active), Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 14-13 State Com 331H, Wellbore #1, Permit Plan 1 V0</li> <li>Allied State Com 1 (Active), Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree 14 State Com #001, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 14-13 State Com 334H, Wellbore #1, Permit Plan 1 V0</li> <li>Esperanza 14 State #002 (Active), Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 14-13 State Com 336H, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 14-13 State Com 336H, ST01, ST01 V0</li> </ul> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



# **WCDSC Permian NM**

**Eddy County (NAD 83 NM Eastern)**

**Sec 14-T21S-R27E**

**Lone Tree Draw 14-13 State Com 333H**

**Wellbore #1**

**Permit Plan 1**

## **Anticollision Report**

**07 October, 2019**

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

|                                     |                                                                     |                       |                     |
|-------------------------------------|---------------------------------------------------------------------|-----------------------|---------------------|
| <b>Reference</b>                    | Permit Plan 1                                                       |                       |                     |
| <b>Filter type:</b>                 | NO GLOBAL FILTER: Using user defined selection & filtering criteria |                       |                     |
| <b>Interpolation Method:</b>        | Stations                                                            | <b>Error Model:</b>   | ISCWSA              |
| <b>Depth Range:</b>                 | Unlimited                                                           | <b>Scan Method:</b>   | Closest Approach 3D |
| <b>Results Limited by:</b>          | Maximum center-center distance of 10,000.00 ft                      | <b>Error Surface:</b> | Pedal Curve         |
| <b>Warning Levels Evaluated at:</b> | 2.00 Sigma                                                          | <b>Casing Method:</b> | Not applied         |

|                            |                |                             |                  |                    |
|----------------------------|----------------|-----------------------------|------------------|--------------------|
| <b>Survey Tool Program</b> | <b>Date</b>    | 10/4/2019                   |                  |                    |
| <b>From (ft)</b>           | <b>To (ft)</b> | <b>Survey (Wellbore)</b>    | <b>Tool Name</b> | <b>Description</b> |
| 0.00                       | 19,308.27      | Permit Plan 1 (Wellbore #1) | MWD+IFR1         | OWSG MWD + IFR1    |

| <b>Summary</b>                                         |                               |                            |                               |                                |                   |               |
|--------------------------------------------------------|-------------------------------|----------------------------|-------------------------------|--------------------------------|-------------------|---------------|
| Site Name                                              | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning       |
| Offset Well - Wellbore - Design                        |                               |                            |                               |                                |                   |               |
| Sec 13-T21S-R27E                                       |                               |                            |                               |                                |                   |               |
| Lone Tree Draw 13 State 11H - Wellbore #1 - Wellbore # | 15,975.33                     | 8,463.95                   | 1,977.03                      | 1,899.27                       | 25.423            | CC            |
| Lone Tree Draw 13 State 11H - Wellbore #1 - Wellbore # | 16,000.00                     | 8,465.04                   | 1,977.18                      | 1,899.19                       | 25.351            | ES            |
| Lone Tree Draw 13 State 11H - Wellbore #1 - Wellbore # | 19,100.00                     | 19,100.00                  | 3,694.56                      | 3,488.19                       | 17.902            | SF            |
| Lone Tree Draw 13 State 15H - Original Hole - Actuals  | 14,914.32                     | 14,914.32                  | 1,364.10                      | 1,257.65                       | 12.815            | CC, ES        |
| Lone Tree Draw 13 State 15H - Original Hole - Actuals  | 15,000.00                     | 15,000.00                  | 1,366.79                      | 1,258.60                       | 12.634            | SF            |
| Lone Tree Draw 13 State Com 4H - Pilot - Pilot         | 14,751.24                     | 7,876.00                   | 2,227.48                      | 2,082.89                       | 15.405            | CC            |
| Lone Tree Draw 13 State Com 4H - Pilot - Pilot         | 14,800.00                     | 7,876.00                   | 2,228.01                      | 2,082.53                       | 15.315            | ES            |
| Lone Tree Draw 13 State Com 4H - Pilot - Pilot         | 15,100.00                     | 7,876.00                   | 2,254.62                      | 2,104.80                       | 15.049            | SF            |
| Lone Tree Draw 13 State Com 4H - Wellbore #2 - Wellbo  | 12,600.00                     | 12,600.00                  | 4,496.64                      | 4,383.15                       | 39.621            | SF            |
| Lone Tree Draw 13 State Com 4H - Wellbore #2 - Wellbo  | 15,040.39                     | 6,780.00                   | 3,778.28                      | 3,708.78                       | 54.369            | CC            |
| Lone Tree Draw 13 State Com 4H - Wellbore #2 - Wellbo  | 15,100.00                     | 6,780.00                   | 3,778.75                      | 3,708.77                       | 54.000            | ES            |
| Lone Tree Draw 13 State Com 5H - Wellbore #1 - Wellbo  | 16,740.01                     | 7,077.00                   | 3,767.73                      | 3,683.80                       | 44.890            | CC            |
| Lone Tree Draw 13 State Com 5H - Wellbore #1 - Wellbo  | 16,800.00                     | 7,079.22                   | 3,768.21                      | 3,683.76                       | 44.622            | ES            |
| Lone Tree Draw 13 State Com 5H - Wellbore #1 - Wellbo  | 18,000.00                     | 7,119.38                   | 3,972.52                      | 3,878.08                       | 42.061            | SF            |
| Lone Tree Draw 13 State Com 8H - Original Hole - Actua | 17,346.61                     | 9,626.12                   | 997.32                        | 910.17                         | 11.445            | CC, ES        |
| Lone Tree Draw 13 State Com 8H - Original Hole - Actua | 17,600.00                     | 9,626.96                   | 1,029.00                      | 937.62                         | 11.260            | SF            |
| Lone Tree Draw State 3H - Wellbore #1 - Wellbore #1    | 15,723.69                     | 6,887.46                   | 3,789.77                      | 3,714.43                       | 50.301            | CC, ES        |
| Lone Tree Draw State 3H - Wellbore #1 - Wellbore #1    | 18,500.00                     | 18,500.00                  | 4,697.87                      | 4,492.52                       | 22.877            | SF            |
| Lone Tree Draw State 7H - Wellbore #1 - Wellbore #1    | 16,373.02                     | 9,889.06                   | 1,031.64                      | 947.12                         | 12.206            | CC, ES        |
| Lone Tree Draw State 7H - Wellbore #1 - Wellbore #1    | 16,500.00                     | 9,889.90                   | 1,039.43                      | 953.39                         | 12.081            | SF            |
| Lone Tree Draw State Com 2H - ST01 - ST01              | 14,592.75                     | 6,719.00                   | 3,835.98                      | 3,770.09                       | 58.215            | CC            |
| Lone Tree Draw State Com 2H - ST01 - ST01              | 14,600.00                     | 6,719.00                   | 3,835.99                      | 3,770.04                       | 58.164            | ES            |
| Lone Tree Draw State Com 2H - ST01 - ST01              | 16,100.00                     | 6,661.90                   | 4,120.61                      | 4,042.51                       | 52.762            | SF            |
| Lone Tree Draw State Com 2H - Wellbore #1 - Wellbore   | 14,760.69                     | 6,978.42                   | 2,712.38                      | 2,590.13                       | 22.188            | CC            |
| Lone Tree Draw State Com 2H - Wellbore #1 - Wellbore   | 14,800.00                     | 6,978.42                   | 2,712.66                      | 2,589.79                       | 22.078            | ES            |
| Lone Tree Draw State Com 2H - Wellbore #1 - Wellbore   | 15,300.00                     | 6,978.42                   | 2,765.47                      | 2,636.26                       | 21.402            | SF            |
| Lone Tree State #001 - Wellbore #1 - Wellbore #1       | 15,937.60                     | 8,753.20                   | 1,101.53                      | 821.12                         | 3.928             | Alert, CC, ES |
| Lone Tree State #001 - Wellbore #1 - Wellbore #1       | 16,000.00                     | 8,753.20                   | 1,103.30                      | 821.91                         | 3.921             | Alert, SF     |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Summary                                                 |                               |                            |                               |                                |                   |                    |
|---------------------------------------------------------|-------------------------------|----------------------------|-------------------------------|--------------------------------|-------------------|--------------------|
| Site Name                                               | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning            |
| Offset Well - Wellbore - Design                         |                               |                            |                               |                                |                   |                    |
| Sec 14-T21S-R27E                                        |                               |                            |                               |                                |                   |                    |
| Allied State Com 1 (Active) - Wellbore #1 - Wellbore #1 | 10,620.27                     | 8,815.20                   | 1,541.35                      | 1,313.69                       | 6.770             | CC, ES             |
| Allied State Com 1 (Active) - Wellbore #1 - Wellbore #1 | 10,800.00                     | 8,815.20                   | 1,551.80                      | 1,321.49                       | 6.738             | SF                 |
| Esperanza 14 State #001 (Active) - Wellbore #1 - Wellbo | 2,000.00                      | 1,989.20                   | 1,457.98                      | 1,421.37                       | 39.826            | CC                 |
| Esperanza 14 State #001 (Active) - Wellbore #1 - Wellbo | 2,100.00                      | 2,089.19                   | 1,458.85                      | 1,420.38                       | 37.928            | ES                 |
| Esperanza 14 State #001 (Active) - Wellbore #1 - Wellbo | 9,600.00                      | 8,824.20                   | 2,446.62                      | 2,278.48                       | 14.551            | SF                 |
| Esperanza 14 State #002 (Active) - Wellbore #1 - Wellbo | 9,295.36                      | 8,821.20                   | 370.33                        | 157.96                         | 1.744             | Minor Risk, CC, ES |
| Esperanza 14 State #002 (Active) - Wellbore #1 - Wellbo | 9,300.00                      | 8,821.20                   | 370.36                        | 157.96                         | 1.744             | Minor Risk, SF     |
| Lone Tree Draw 14-13 State Com 331H - Wellbore #1 - P   | 7,265.16                      | 6,980.06                   | 1,482.62                      | 1,430.79                       | 28.605            | CC                 |
| Lone Tree Draw 14-13 State Com 331H - Wellbore #1 - P   | 19,308.27                     | 19,322.16                  | 1,759.45                      | 1,324.93                       | 4.049             | Alert, ES, SF      |
| Lone Tree Draw 14-13 State Com 332H - Wellbore #1 - P   | 7,685.06                      | 7,540.96                   | 884.48                        | 829.48                         | 16.081            | CC                 |
| Lone Tree Draw 14-13 State Com 332H - Wellbore #1 - P   | 19,308.27                     | 19,281.48                  | 890.92                        | 457.17                         | 2.054             | Minor Risk, ES, SF |
| Lone Tree Draw 14-13 State Com 334H - Wellbore #1 - P   | 2,000.00                      | 2,000.30                   | 29.97                         | 16.04                          | 2.152             | Minor Risk, CC, ES |
| Lone Tree Draw 14-13 State Com 334H - Wellbore #1 - P   | 19,308.27                     | 19,300.82                  | 863.71                        | 430.01                         | 1.991             | Minor Risk, SF     |
| Lone Tree Draw 14-13 State Com 335H - Wellbore #1 - W   | 2,104.93                      | 2,150.71                   | 1,703.67                      | 1,689.49                       | 120.110           | CC                 |
| Lone Tree Draw 14-13 State Com 335H - Wellbore #1 - W   | 19,221.83                     | 19,158.00                  | 1,768.30                      | 1,256.71                       | 3.456             | Alert, ES          |
| Lone Tree Draw 14-13 State Com 335H - Wellbore #1 - W   | 19,308.27                     | 19,158.00                  | 1,770.41                      | 1,258.04                       | 3.455             | Alert, SF          |
| Lone Tree Draw 14-13 State Com 336H - ST01 - ST01       | 2,044.39                      | 2,071.95                   | 1,725.46                      | 1,711.88                       | 127.110           | CC                 |
| Lone Tree Draw 14-13 State Com 336H - ST01 - ST01       | 2,100.00                      | 2,126.07                   | 1,725.74                      | 1,711.78                       | 123.592           | ES                 |
| Lone Tree Draw 14-13 State Com 336H - ST01 - ST01       | 18,800.00                     | 19,172.00                  | 2,868.68                      | 2,390.90                       | 6.004             | SF                 |
| Lone Tree Draw 14-13 State Com 336H - Wellbore #1 - W   | 2,044.39                      | 2,071.95                   | 1,725.46                      | 1,711.88                       | 127.110           | CC                 |
| Lone Tree Draw 14-13 State Com 336H - Wellbore #1 - W   | 2,100.00                      | 2,126.07                   | 1,725.74                      | 1,711.78                       | 123.592           | ES                 |
| Lone Tree Draw 14-13 State Com 336H - Wellbore #1 - W   | 9,900.00                      | 8,726.24                   | 3,057.73                      | 2,989.74                       | 44.975            | SF                 |
| Lone Tree Draw 14-13 State Com 621H - Wellbore #1 - P   | 7,315.04                      | 7,058.96                   | 1,340.01                      | 1,287.84                       | 25.687            | CC                 |
| Lone Tree Draw 14-13 State Com 621H - Wellbore #1 - P   | 19,308.27                     | 19,506.25                  | 1,415.97                      | 986.68                         | 3.298             | Alert, ES, SF      |
| Lone Tree Draw 14-13 State Com 623H - Wellbore #1 - P   | 2,000.00                      | 2,000.90                   | 59.98                         | 46.05                          | 4.306             | Alert, CC, ES      |
| Lone Tree Draw 14-13 State Com 623H - Wellbore #1 - P   | 19,308.27                     | 19,456.84                  | 1,379.82                      | 949.96                         | 3.210             | Alert, SF          |
| Lonetree 14 State Com #001 - Wellbore #1 - Wellbore #1  | 11,974.55                     | 8,785.20                   | 2,444.69                      | 2,240.81                       | 11.991            | CC                 |
| Lonetree 14 State Com #001 - Wellbore #1 - Wellbore #1  | 12,000.00                     | 8,785.20                   | 2,444.82                      | 2,240.48                       | 11.965            | ES                 |
| Lonetree 14 State Com #001 - Wellbore #1 - Wellbore #1  | 12,400.00                     | 8,785.20                   | 2,481.43                      | 2,270.75                       | 11.778            | SF                 |
| Magnolia State 2 (P&A) - Wellbore #1 - Wellbore #1      | 600.00                        | 577.20                     | 2,616.76                      | 2,464.53                       | 17.190            | CC, ES             |
| Magnolia State 2 (P&A) - Wellbore #1 - Wellbore #1      | 700.00                        | 563.00                     | 2,619.26                      | 2,466.83                       | 17.184            | SF                 |

|                                               |                     |                     |                     |                |             |                       |                                   |            |                               |                                |                         |                   |                    |         |
|-----------------------------------------------|---------------------|---------------------|---------------------|----------------|-------------|-----------------------|-----------------------------------|------------|-------------------------------|--------------------------------|-------------------------|-------------------|--------------------|---------|
| Offset Design                                 |                     |                     |                     |                |             |                       |                                   |            |                               |                                |                         |                   | Offset Site Error: | 5.00 ft |
| Survey Program: 111-GYRO-NS-CT, 6243-MWD+HDGM |                     |                     |                     |                |             |                       |                                   |            |                               |                                |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     |                     |                     |                |             |                       |                                   |            |                               |                                |                         |                   |                    |         |
| Semi Major Axis                               |                     |                     |                     |                |             |                       |                                   |            |                               |                                |                         |                   |                    |         |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning            |         |
| 0.00                                          | 0.00                | 0.00                | 0.00                | 0.50           | 5.02        | 66.55                 | 3,106.55                          | 7,162.72   | 7,807.60                      |                                |                         |                   |                    |         |
| 100.00                                        | 100.00              | 28.07               | 28.07               | 0.52           | 5.03        | 66.55                 | 3,106.55                          | 7,162.75   | 7,807.42                      | 7,801.88                       | 5.54                    | 1,408.558         |                    |         |
| 200.00                                        | 200.00              | 94.59               | 94.59               | 0.70           | 5.03        | 66.55                 | 3,106.54                          | 7,163.04   | 7,807.82                      | 7,802.09                       | 5.73                    | 1,362.925         |                    |         |
| 300.00                                        | 300.00              | 221.49              | 221.49              | 0.99           | 5.05        | 66.56                 | 3,106.52                          | 7,163.64   | 7,808.24                      | 7,802.20                       | 6.04                    | 1,292.530         |                    |         |
| 400.00                                        | 400.00              | 282.21              | 282.20              | 1.31           | 5.08        | 66.56                 | 3,106.15                          | 7,164.14   | 7,808.76                      | 7,802.37                       | 6.39                    | 1,222.034         |                    |         |
| 500.00                                        | 500.00              | 601.63              | 601.53              | 1.65           | 5.37        | 66.61                 | 3,099.19                          | 7,164.14   | 7,807.38                      | 7,800.37                       | 7.01                    | 1,113.571         |                    |         |
| 600.00                                        | 600.00              | 670.37              | 670.25              | 1.99           | 5.46        | 66.62                 | 3,097.57                          | 7,163.51   | 7,805.59                      | 7,798.15                       | 7.45                    | 1,048.386         |                    |         |
| 700.00                                        | 700.00              | 792.57              | 792.41              | 2.34           | 5.64        | 66.63                 | 3,094.70                          | 7,162.37   | 7,803.80                      | 7,795.83                       | 7.97                    | 978.559           |                    |         |
| 800.00                                        | 800.00              | 888.48              | 888.29              | 2.69           | 5.80        | 66.64                 | 3,092.55                          | 7,161.33   | 7,801.91                      | 7,793.43                       | 8.49                    | 919.359           |                    |         |
| 900.00                                        | 900.00              | 994.05              | 993.83              | 3.04           | 6.00        | 66.65                 | 3,090.39                          | 7,160.07   | 7,800.01                      | 7,790.97                       | 9.03                    | 863.589           |                    |         |
| 1,000.00                                      | 1,000.00            | 1,135.37            | 1,135.11            | 3.40           | 6.29        | 66.67                 | 3,087.56                          | 7,158.04   | 7,797.94                      | 7,788.27                       | 9.67                    | 806.535           |                    |         |
| 1,100.00                                      | 1,100.00            | 1,304.96            | 1,304.61            | 3.75           | 6.67        | 66.68                 | 3,083.54                          | 7,154.29   | 7,794.93                      | 7,784.54                       | 10.39                   | 749.932           |                    |         |
| 1,200.00                                      | 1,200.00            | 1,453.16            | 1,452.71            | 4.11           | 7.03        | 66.69                 | 3,080.72                          | 7,149.55   | 7,791.24                      | 7,780.14                       | 11.10                   | 702.085           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design      Sec 13-T21S-R27E - Lone Tree Draw 13 State 11H - Wellbore #1 - Wellbore #1 |                |                |                |                 |        |                   |                              |              |                 |                  |                    |                   | Offset Site Error:      5.00 ft |         |
|-----------------------------------------------------------------------------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------------|--------------|-----------------|------------------|--------------------|-------------------|---------------------------------|---------|
| Survey Program:      111-GYRO-NS-CT, 6243-MWD+HDGM                                            |                |                |                |                 |        |                   |                              |              |                 |                  |                    |                   | Offset Well Error:      0.50 ft |         |
| Reference                                                                                     |                | Offset         |                | Semi Major Axis |        |                   | Distance                     |              |                 |                  |                    |                   |                                 | Warning |
| Measured Depth                                                                                | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre +N/-S | Centre +E/-W | Between Centres | Between Ellipses | Minimum Separation | Separation Factor |                                 |         |
| (ft)                                                                                          | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | (ft)                         | (ft)         | (ft)            | (ft)             | (ft)               |                   |                                 |         |
| 1,300.00                                                                                      | 1,300.00       | 1,559.66       | 1,559.11       | 4.46            | 7.30   | 66.70             | 3,078.18                     | 7,145.97     | 7,787.20        | 7,775.49         | 11.72              | 664.617           |                                 |         |
| 1,400.00                                                                                      | 1,400.00       | 1,653.29       | 1,652.66       | 4.82            | 7.55   | 66.70             | 3,075.99                     | 7,142.76     | 7,783.13        | 7,770.82         | 12.31              | 632.101           |                                 |         |
| 1,500.00                                                                                      | 1,500.00       | 1,732.99       | 1,732.30       | 5.18            | 7.77   | 66.71             | 3,074.29                     | 7,140.17     | 7,779.29        | 7,766.41         | 12.88              | 603.998           |                                 |         |
| 1,600.00                                                                                      | 1,600.00       | 1,828.18       | 1,827.42       | 5.53            | 8.03   | 66.71             | 3,072.22                     | 7,137.21     | 7,775.58        | 7,762.09         | 13.49              | 576.298           |                                 |         |
| 1,700.00                                                                                      | 1,700.00       | 1,955.61       | 1,954.76       | 5.89            | 8.39   | 66.72             | 3,069.21                     | 7,133.47     | 7,772.01        | 7,757.81         | 14.20              | 547.343           |                                 |         |
| 1,800.00                                                                                      | 1,800.00       | 2,140.39       | 2,139.31       | 6.25            | 8.95   | 66.75             | 3,062.57                     | 7,126.85     | 7,767.18        | 7,752.10         | 15.08              | 515.068           |                                 |         |
| 1,900.00                                                                                      | 1,900.00       | 2,251.33       | 2,250.07       | 6.61            | 9.29   | 66.76             | 3,058.16                     | 7,122.41     | 7,761.93        | 7,746.16         | 15.76              | 492.456           |                                 |         |
| 2,000.00                                                                                      | 2,000.00       | 2,352.43       | 2,351.01       | 6.96            | 9.61   | 66.78             | 3,054.29                     | 7,118.30     | 7,756.68        | 7,740.26         | 16.42              | 472.409           |                                 |         |
| 2,100.00                                                                                      | 2,099.99       | 2,470.88       | 2,469.27       | 7.32            | 9.99   | 79.63             | 3,049.90                     | 7,113.27     | 7,751.16        | 7,734.02         | 17.13              | 452.456           |                                 |         |
| 2,200.00                                                                                      | 2,199.96       | 2,558.19       | 2,556.44       | 7.68            | 10.28  | 79.72             | 3,046.81                     | 7,109.43     | 7,745.25        | 7,727.49         | 17.75              | 436.251           |                                 |         |
| 2,300.00                                                                                      | 2,299.86       | 2,634.61       | 2,632.74       | 8.04            | 10.53  | 79.81             | 3,043.76                     | 7,106.40     | 7,739.26        | 7,720.91         | 18.35              | 421.820           |                                 |         |
| 2,400.00                                                                                      | 2,399.68       | 2,764.61       | 2,762.54       | 8.39            | 10.95  | 79.96             | 3,038.39                     | 7,101.43     | 7,733.08        | 7,713.97         | 19.11              | 404.762           |                                 |         |
| 2,500.00                                                                                      | 2,499.37       | 2,876.96       | 2,874.69       | 8.75            | 11.33  | 80.10             | 3,034.13                     | 7,096.46     | 7,726.14        | 7,706.33         | 19.81              | 389.984           |                                 |         |
| 2,600.00                                                                                      | 2,598.90       | 2,961.15       | 2,958.74       | 9.11            | 11.61  | 80.24             | 3,031.10                     | 7,092.70     | 7,718.96        | 7,698.53         | 20.43              | 377.755           |                                 |         |
| 2,700.00                                                                                      | 2,698.26       | 3,040.53       | 3,037.99       | 9.46            | 11.88  | 80.39             | 3,028.07                     | 7,089.43     | 7,711.73        | 7,690.69         | 21.04              | 366.466           |                                 |         |
| 2,800.00                                                                                      | 2,797.40       | 3,145.58       | 3,142.89       | 9.82            | 12.24  | 80.58             | 3,024.17                     | 7,085.16     | 7,704.33        | 7,682.59         | 21.73              | 354.468           |                                 |         |
| 2,900.00                                                                                      | 2,896.30       | 3,250.35       | 3,247.50       | 10.18           | 12.59  | 80.78             | 3,020.74                     | 7,080.58     | 7,696.56        | 7,674.14         | 22.43              | 343.184           |                                 |         |
| 3,000.00                                                                                      | 2,994.93       | 3,341.90       | 3,338.92       | 10.54           | 12.91  | 80.98             | 3,017.68                     | 7,076.65     | 7,688.60        | 7,665.52         | 23.08              | 333.119           |                                 |         |
| 3,100.00                                                                                      | 3,093.26       | 3,449.71       | 3,446.56       | 10.90           | 13.28  | 81.22             | 3,014.19                     | 7,071.89     | 7,680.33        | 7,656.54         | 23.79              | 322.867           |                                 |         |
| 3,195.07                                                                                      | 3,186.42       | 3,538.48       | 3,535.20       | 11.24           | 13.58  | 81.44             | 3,011.54                     | 7,067.87     | 7,672.27        | 7,647.85         | 24.42              | 314.185           |                                 |         |
| 3,200.00                                                                                      | 3,191.25       | 3,543.28       | 3,540.00       | 11.26           | 13.60  | 81.45             | 3,011.40                     | 7,067.65     | 7,671.85        | 7,647.39         | 24.45              | 313.737           |                                 |         |
| 3,300.00                                                                                      | 3,289.08       | 3,638.80       | 3,635.37       | 11.62           | 13.93  | 81.60             | 3,008.63                     | 7,063.31     | 7,663.33        | 7,638.20         | 25.13              | 304.981           |                                 |         |
| 3,400.00                                                                                      | 3,386.91       | 3,728.96       | 3,725.42       | 11.98           | 14.24  | 81.74             | 3,006.29                     | 7,059.17     | 7,654.92        | 7,629.14         | 25.79              | 296.849           |                                 |         |
| 3,500.00                                                                                      | 3,484.74       | 3,816.32       | 3,812.66       | 12.35           | 14.54  | 81.88             | 3,004.08                     | 7,055.25     | 7,646.70        | 7,620.26         | 26.44              | 289.200           |                                 |         |
| 3,600.00                                                                                      | 3,582.58       | 3,908.71       | 3,904.93       | 12.72           | 14.86  | 82.03             | 3,002.10                     | 7,051.06     | 7,638.63        | 7,611.52         | 27.11              | 281.739           |                                 |         |
| 3,700.00                                                                                      | 3,680.41       | 4,000.13       | 3,996.24       | 13.09           | 15.18  | 82.17             | 3,000.25                     | 7,046.93     | 7,630.68        | 7,602.90         | 27.78              | 274.652           |                                 |         |
| 3,800.00                                                                                      | 3,778.24       | 4,089.31       | 4,085.31       | 13.46           | 15.48  | 82.31             | 2,998.25                     | 7,043.07     | 7,622.88        | 7,594.43         | 28.45              | 267.946           |                                 |         |
| 3,900.00                                                                                      | 3,876.08       | 4,168.30       | 4,164.21       | 13.83           | 15.76  | 82.43             | 2,996.88                     | 7,039.65     | 7,615.31        | 7,586.23         | 29.08              | 261.836           |                                 |         |
| 4,000.00                                                                                      | 3,973.91       | 4,238.91       | 4,234.76       | 14.21           | 15.99  | 82.54             | 2,996.44                     | 7,036.52     | 7,608.08        | 7,578.39         | 29.69              | 256.225           |                                 |         |
| 4,100.00                                                                                      | 4,071.74       | 4,302.16       | 4,297.94       | 14.58           | 16.20  | 82.63             | 2,996.72                     | 7,033.71     | 7,601.28        | 7,571.01         | 30.28              | 251.040           |                                 |         |
| 4,200.00                                                                                      | 4,169.57       | 4,366.98       | 4,362.70       | 14.96           | 16.42  | 82.71             | 2,997.63                     | 7,030.98     | 7,595.05        | 7,564.17         | 30.87              | 246.023           |                                 |         |
| 4,300.00                                                                                      | 4,267.41       | 4,508.38       | 4,503.95       | 15.33           | 16.88  | 82.90             | 3,000.17                     | 7,024.90     | 7,589.00        | 7,557.29         | 31.71              | 239.308           |                                 |         |
| 4,400.00                                                                                      | 4,365.24       | 4,603.54       | 4,598.94       | 15.71           | 17.19  | 83.02             | 3,002.34                     | 7,019.92     | 7,582.23        | 7,549.83         | 32.41              | 233.974           |                                 |         |
| 4,500.00                                                                                      | 4,463.07       | 4,702.32       | 4,692.40       | 16.09           | 17.50  | 102.47            | 882.92                       | 7,068.63     | 7,559.97        | 7,507.02         | 52.95              | 142.776           |                                 |         |
| 4,600.00                                                                                      | 4,560.90       | 4,869.39       | 4,792.61       | 16.47           | 17.80  | 102.40            | 891.81                       | 7,067.95     | 7,532.68        | 7,479.31         | 53.37              | 141.142           |                                 |         |
| 4,700.00                                                                                      | 4,658.74       | 4,864.21       | 4,792.87       | 16.85           | 17.80  | 102.33            | 900.96                       | 7,067.25     | 7,506.60        | 7,452.82         | 53.78              | 139.572           |                                 |         |
| 4,800.00                                                                                      | 4,756.57       | 4,874.74       | 4,793.16       | 17.23           | 17.80  | 102.26            | 910.40                       | 7,066.54     | 7,481.73        | 7,427.54         | 54.19              | 138.066           |                                 |         |
| 4,900.00                                                                                      | 4,854.40       | 4,864.00       | 4,794.41       | 17.61           | 17.80  | 102.01            | 942.03                       | 7,064.23     | 7,458.17        | 7,403.85         | 54.32              | 137.295           |                                 |         |
| 5,000.00                                                                                      | 4,952.23       | 4,864.00       | 4,794.41       | 17.99           | 17.80  | 102.01            | 942.03                       | 7,064.23     | 7,435.72        | 7,380.88         | 54.84              | 135.601           |                                 |         |
| 5,100.00                                                                                      | 5,050.07       | 4,864.00       | 4,794.41       | 18.37           | 17.80  | 102.01            | 942.03                       | 7,064.23     | 7,414.54        | 7,359.19         | 55.34              | 133.970           |                                 |         |
| 5,200.00                                                                                      | 5,147.90       | 4,864.00       | 4,794.41       | 18.75           | 17.80  | 102.01            | 942.03                       | 7,064.23     | 7,394.66        | 7,338.81         | 55.85              | 132.403           |                                 |         |
| 5,300.00                                                                                      | 5,245.73       | 4,864.00       | 4,794.41       | 19.14           | 17.80  | 102.01            | 942.03                       | 7,064.23     | 7,376.07        | 7,319.72         | 56.35              | 130.898           |                                 |         |
| 5,400.00                                                                                      | 5,343.56       | 4,861.67       | 4,795.61       | 19.52           | 17.80  | 101.81            | 969.27                       | 7,062.37     | 7,358.67        | 7,302.15         | 56.52              | 130.201           |                                 |         |
| 5,500.00                                                                                      | 5,441.40       | 4,860.22       | 4,796.01       | 19.90           | 17.80  | 101.73            | 978.69                       | 7,061.76     | 7,342.61        | 7,285.72         | 56.89              | 129.058           |                                 |         |
| 5,600.00                                                                                      | 5,539.23       | 4,856.85       | 4,796.40       | 20.29           | 17.80  | 101.66            | 988.04                       | 7,061.19     | 7,327.86        | 7,270.59         | 57.26              | 127.965           |                                 |         |
| 5,700.00                                                                                      | 5,637.06       | 4,858.54       | 4,796.78       | 20.67           | 17.80  | 101.59            | 997.32                       | 7,060.64     | 7,314.40        | 7,256.77         | 57.63              | 126.921           |                                 |         |
| 5,800.00                                                                                      | 5,734.90       | 4,857.31       | 4,797.15       | 21.05           | 17.80  | 101.52            | 1,006.53                     | 7,060.11     | 7,302.27        | 7,244.28         | 57.99              | 125.925           |                                 |         |
| 5,900.00                                                                                      | 5,832.73       | 4,854.00       | 4,798.26       | 21.44           | 17.80  | 101.30            | 1,035.78                     | 7,058.58     | 7,291.52        | 7,233.42         | 58.10              | 125.498           |                                 |         |
| 6,000.00                                                                                      | 5,930.56       | 4,850.00       | 4,798.21       | 21.83           | 17.80  | 101.31            | 1,034.08                     | 7,058.67     | 7,281.98        | 7,252.07         | 59.91              | 124.378           |                                 |         |
| 6,100.00                                                                                      | 6,028.39       | 4,851.65       | 4,797.80       | 22.21           | 17.80  | 101.39            | 1,023.15                     | 7,059.19     | 7,273.79        | 7,214.64         | 59.15              | 122.962           |                                 |         |
| 6,200.00                                                                                      | 6,126.23       | 4,850.59       | 4,799.80       | 22.60           | 17.80  | 100.96            | 1,079.11                     | 7,056.39     | 7,266.93        | 7,207.99         | 58.94              | 123.302           |                                 |         |
| 6,300.00                                                                                      | 6,224.06       | 4,852.77       | 4,801.53       | 22.98           | 17.80  | 100.56            | 1,131.82                     | 7,053.54     | 7,261.26        | 7,202.51         | 58.75              | 123.601           |                                 |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 111-GYRO-NS-CT, 6243-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 6,400.00                                      | 6,321.89            | 8,432.15            | 6,802.13            | 23.37           | 35.67       | 100.40                | 1,152.40                          | 7,052.40   | 7,256.84             | 7,197.91              | 58.93                   | 123.135           |                    |         |
| 6,500.00                                      | 6,419.72            | 8,412.36            | 6,802.60            | 23.76           | 35.44       | 100.25                | 1,172.15                          | 7,051.32   | 7,253.74             | 7,194.61              | 59.12                   | 122.690           |                    |         |
| 6,600.00                                      | 6,517.56            | 8,393.35            | 6,802.96            | 24.14           | 35.22       | 100.10                | 1,191.13                          | 7,050.29   | 7,251.95             | 7,192.64              | 59.31                   | 122.269           |                    |         |
| 6,685.07                                      | 6,600.78            | 8,377.77            | 6,803.20            | 24.47           | 35.04       | 99.98                 | 1,206.70                          | 7,049.46   | 7,251.47             | 7,192.00              | 59.47                   | 121.930           |                    |         |
| 6,700.00                                      | 6,615.39            | 8,375.08            | 6,803.23            | 24.53           | 35.01       | 99.96                 | 1,209.38                          | 7,049.32   | 7,251.49             | 7,191.99              | 59.50                   | 121.872           |                    |         |
| 6,800.00                                      | 6,713.22            | 8,359.00            | 6,803.40            | 24.92           | 34.82       | 99.83                 | 1,225.43                          | 7,048.47   | 7,252.35             | 7,192.64              | 59.71                   | 121.466           |                    |         |
| 6,900.00                                      | 6,811.05            | 8,359.00            | 6,803.40            | 25.30           | 34.82       | 99.83                 | 1,225.43                          | 7,048.47   | 7,254.57             | 7,194.48              | 60.09                   | 120.727           |                    |         |
| 7,000.00                                      | 6,908.89            | 8,359.00            | 6,803.40            | 25.69           | 34.82       | 99.83                 | 1,225.43                          | 7,048.47   | 7,258.16             | 7,197.70              | 60.47                   | 120.038           |                    |         |
| 7,100.00                                      | 7,006.72            | 8,359.00            | 6,803.40            | 26.08           | 34.82       | 99.83                 | 1,225.43                          | 7,048.47   | 7,263.13             | 7,202.30              | 60.83                   | 119.398           |                    |         |
| 7,200.00                                      | 7,104.55            | 8,359.00            | 6,803.40            | 26.47           | 34.82       | 99.83                 | 1,225.43                          | 7,048.47   | 7,269.48             | 7,208.29              | 61.19                   | 118.806           |                    |         |
| 7,216.87                                      | 7,121.05            | 8,359.00            | 6,803.40            | 26.53           | 34.82       | 99.83                 | 1,225.43                          | 7,048.47   | 7,270.68             | 7,209.43              | 61.25                   | 118.711           |                    |         |
| 7,300.00                                      | 7,202.57            | 8,324.70            | 6,803.76            | 26.85           | 34.44       | 99.66                 | 1,259.69                          | 7,046.85   | 7,276.78             | 7,215.63              | 61.15                   | 119.000           |                    |         |
| 7,400.00                                      | 7,301.06            | 8,318.88            | 6,803.83            | 27.23           | 34.37       | 99.74                 | 1,265.51                          | 7,046.61   | 7,285.17             | 7,223.75              | 61.42                   | 118.621           |                    |         |
| 7,500.00                                      | 7,399.97            | 8,313.83            | 6,803.89            | 27.61           | 34.31       | 99.84                 | 1,270.55                          | 7,046.41   | 7,294.46             | 7,232.79              | 61.68                   | 118.272           |                    |         |
| 7,600.00                                      | 7,499.23            | 8,309.58            | 6,803.95            | 27.98           | 34.26       | 99.96                 | 1,274.80                          | 7,046.25   | 7,304.66             | 7,242.73              | 61.93                   | 117.952           |                    |         |
| 7,700.00                                      | 7,598.77            | 8,306.14            | 6,803.99            | 28.34           | 34.23       | 100.10                | 1,278.24                          | 7,046.12   | 7,315.75             | 7,253.58              | 62.18                   | 117.661           |                    |         |
| 7,800.00                                      | 7,698.53            | 8,303.50            | 6,804.03            | 28.70           | 34.20       | 100.25                | 1,280.88                          | 7,046.02   | 7,327.74             | 7,265.32              | 62.42                   | 117.399           |                    |         |
| 7,900.00                                      | 7,798.44            | 8,301.68            | 6,804.06            | 29.05           | 34.18       | 100.43                | 1,282.69                          | 7,045.96   | 7,340.60             | 7,277.95              | 62.65                   | 117.165           |                    |         |
| 8,000.00                                      | 7,898.42            | 8,300.69            | 6,804.07            | 29.39           | 34.16       | 100.63                | 1,283.68                          | 7,045.92   | 7,354.33             | 7,291.45              | 62.88                   | 116.957           |                    |         |
| 8,013.58                                      | 7,912.00            | 8,300.62            | 6,804.07            | 29.43           | 34.16       | 87.88                 | 1,283.75                          | 7,045.92   | 7,356.26             | 7,293.35              | 62.91                   | 116.931           |                    |         |
| 8,100.00                                      | 7,998.42            | 8,300.22            | 6,804.08            | 29.73           | 34.16       | 87.87                 | 1,284.15                          | 7,045.91   | 7,369.10             | 7,305.99              | 63.10                   | 116.779           |                    |         |
| 8,200.00                                      | 8,098.42            | 8,299.75            | 6,804.08            | 30.07           | 34.15       | 87.87                 | 1,284.62                          | 7,045.89   | 7,385.18             | 7,321.86              | 63.32                   | 116.639           |                    |         |
| 8,300.00                                      | 8,198.42            | 8,299.29            | 6,804.09            | 30.41           | 34.15       | 87.87                 | 1,285.09                          | 7,045.88   | 7,402.58             | 7,339.06              | 63.52                   | 116.536           |                    |         |
| 8,363.62                                      | 8,262.04            | 8,298.99            | 6,804.09            | 30.62           | 34.15       | 87.86                 | 1,285.39                          | 7,045.87   | 7,414.33             | 7,350.68              | 63.65                   | 116.489           |                    |         |
| 8,400.00                                      | 8,298.40            | 8,298.83            | 6,804.10            | 30.75           | 34.14       | -1.78                 | 1,285.55                          | 7,045.86   | 7,420.15             | 7,356.43              | 63.72                   | 116.458           |                    |         |
| 8,450.00                                      | 8,348.10            | 8,298.64            | 6,804.10            | 30.91           | 34.14       | -1.76                 | 1,285.73                          | 7,045.85   | 7,424.70             | 7,360.90              | 63.80                   | 116.374           |                    |         |
| 8,500.00                                      | 8,397.14            | 8,298.50            | 6,804.10            | 31.07           | 34.14       | -1.76                 | 1,285.87                          | 7,045.85   | 7,425.23             | 7,361.34              | 63.88                   | 116.236           |                    |         |
| 8,550.00                                      | 8,445.15            | 8,298.40            | 6,804.10            | 31.23           | 34.14       | -1.78                 | 1,285.97                          | 7,045.85   | 7,421.73             | 7,357.78              | 63.95                   | 116.046           |                    |         |
| 8,600.00                                      | 8,491.77            | 8,298.35            | 6,804.10            | 31.38           | 34.14       | -1.80                 | 1,286.02                          | 7,045.84   | 7,414.24             | 7,350.22              | 64.02                   | 115.807           |                    |         |
| 8,650.00                                      | 8,536.65            | 8,298.34            | 6,804.10            | 31.52           | 34.14       | -1.84                 | 1,286.03                          | 7,045.84   | 7,402.80             | 7,338.71              | 64.08                   | 115.521           |                    |         |
| 8,700.00                                      | 8,579.43            | 8,298.38            | 6,804.10            | 31.66           | 34.14       | -1.89                 | 1,285.99                          | 7,045.84   | 7,387.46             | 7,323.33              | 64.13                   | 115.190           |                    |         |
| 8,750.00                                      | 8,619.80            | 8,298.47            | 6,804.10            | 31.80           | 34.14       | -1.96                 | 1,285.90                          | 7,045.85   | 7,368.34             | 7,304.16              | 64.17                   | 114.817           |                    |         |
| 8,800.00                                      | 8,657.44            | 8,298.60            | 6,804.10            | 31.93           | 34.14       | -2.05                 | 1,285.77                          | 7,045.85   | 7,345.54             | 7,281.33              | 64.21                   | 114.403           |                    |         |
| 8,850.00                                      | 8,692.08            | 8,298.78            | 6,804.10            | 32.06           | 34.14       | -2.16                 | 1,285.59                          | 7,045.86   | 7,319.20             | 7,254.96              | 64.23                   | 113.950           |                    |         |
| 8,900.00                                      | 8,723.44            | 8,299.01            | 6,804.09            | 32.19           | 34.15       | -2.30                 | 1,285.36                          | 7,045.87   | 7,289.48             | 7,225.24              | 64.25                   | 113.461           |                    |         |
| 8,950.00                                      | 8,751.29            | 8,299.28            | 6,804.09            | 32.34           | 34.15       | -2.48                 | 1,285.09                          | 7,045.88   | 7,256.58             | 7,192.33              | 64.25                   | 112.937           |                    |         |
| 9,000.00                                      | 8,775.42            | 8,299.60            | 6,804.08            | 32.50           | 34.15       | -2.71                 | 1,284.78                          | 7,045.89   | 7,220.71             | 7,156.45              | 64.25                   | 112.381           |                    |         |
| 9,050.00                                      | 8,795.64            | 8,299.95            | 6,804.08            | 32.67           | 34.16       | -3.01                 | 1,284.42                          | 7,045.90   | 7,182.08             | 7,117.84              | 64.24                   | 111.793           |                    |         |
| 9,100.00                                      | 8,811.80            | 8,300.35            | 6,804.07            | 32.87           | 34.16       | -3.41                 | 1,284.02                          | 7,045.91   | 7,140.96             | 7,076.73              | 64.23                   | 111.175           |                    |         |
| 9,150.00                                      | 8,823.77            | 8,300.78            | 6,804.07            | 33.10           | 34.17       | -3.96                 | 1,283.59                          | 7,045.93   | 7,097.61             | 7,033.40              | 64.21                   | 110.530           |                    |         |
| 9,200.00                                      | 8,831.47            | 8,301.25            | 6,804.06            | 33.34           | 34.17       | -4.77                 | 1,283.12                          | 7,045.94   | 7,052.34             | 6,988.14              | 64.19                   | 109.859           |                    |         |
| 9,250.00                                      | 8,834.84            | 8,301.76            | 6,804.05            | 33.60           | 34.18       | -6.03                 | 1,282.62                          | 7,045.96   | 7,005.44             | 6,941.27              | 64.17                   | 109.164           |                    |         |
| 9,263.62                                      | 8,835.00            | 8,301.90            | 6,804.05            | 33.67           | 34.18       | -6.51                 | 1,282.48                          | 7,045.97   | 6,992.43             | 6,928.26              | 64.17                   | 108.968           |                    |         |
| 9,300.00                                      | 8,835.00            | 8,302.28            | 6,804.05            | 33.88           | 34.18       | -6.50                 | 1,282.10                          | 7,045.98   | 6,957.55             | 6,893.40              | 64.15                   | 108.455           |                    |         |
| 9,400.00                                      | 8,835.00            | 8,303.35            | 6,804.03            | 34.53           | 34.19       | -6.47                 | 1,281.03                          | 7,046.02   | 6,861.77             | 6,797.67              | 64.10                   | 107.044           |                    |         |
| 9,500.00                                      | 8,835.00            | 8,304.44            | 6,804.02            | 35.30           | 34.21       | -6.44                 | 1,279.94                          | 7,046.06   | 6,766.11             | 6,702.06              | 64.05                   | 105.632           |                    |         |
| 9,600.00                                      | 8,835.00            | 8,305.55            | 6,804.00            | 36.17           | 34.22       | -6.40                 | 1,278.83                          | 7,046.10   | 6,670.58             | 6,606.57              | 64.01                   | 104.219           |                    |         |
| 9,700.00                                      | 8,835.00            | 8,306.69            | 6,803.99            | 37.13           | 34.23       | -6.37                 | 1,277.69                          | 7,046.14   | 6,575.18             | 6,511.22              | 63.96                   | 102.804           |                    |         |
| 9,800.00                                      | 8,835.00            | 8,307.85            | 6,803.97            | 38.18           | 34.25       | -6.34                 | 1,276.53                          | 7,046.18   | 6,479.92             | 6,416.00              | 63.91                   | 101.388           |                    |         |
| 9,900.00                                      | 8,835.00            | 8,309.04            | 6,803.95            | 39.31           | 34.26       | -6.30                 | 1,275.34                          | 7,046.23   | 6,384.80             | 6,320.93              | 63.87                   | 99.970            |                    |         |
| 10,000.00                                     | 8,835.00            | 8,310.26            | 6,803.94            | 40.51           | 34.27       | -6.27                 | 1,274.12                          | 7,046.27   | 6,289.83             | 6,226.01              | 63.82                   | 98.551            |                    |         |
| 10,100.00                                     | 8,835.00            | 8,311.51            | 6,803.92            | 41.78           | 34.29       | -6.23                 | 1,272.87                          | 7,046.32   | 6,195.02             | 6,131.24              | 63.78                   | 97.132            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 111-GYRO-NS-CT, 6243-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 10,200.00                                     | 8,835.00            | 8,312.78            | 6,803.90            | 43.10           | 34.30       | -6.20                 | 1,271.60                          | 7,046.37   | 6,100.38             | 6,036.64              | 63.74                   | 95.710            |                    |         |
| 10,300.00                                     | 8,835.00            | 8,314.09            | 6,803.89            | 44.49           | 34.32       | -6.16                 | 1,270.30                          | 7,046.42   | 6,005.91             | 5,942.21              | 63.70                   | 94.288            |                    |         |
| 10,400.00                                     | 8,835.00            | 8,315.43            | 6,803.87            | 45.92           | 34.33       | -6.12                 | 1,268.96                          | 7,046.47   | 5,911.62             | 5,847.96              | 63.66                   | 92.865            |                    |         |
| 10,500.00                                     | 8,835.00            | 8,316.80            | 6,803.85            | 47.39           | 34.35       | -6.08                 | 1,267.59                          | 7,046.53   | 5,817.52             | 5,753.90              | 63.62                   | 91.440            |                    |         |
| 10,600.00                                     | 8,835.00            | 8,318.20            | 6,803.84            | 48.91           | 34.36       | -6.04                 | 1,266.19                          | 7,046.58   | 5,723.62             | 5,660.03              | 63.59                   | 90.015            |                    |         |
| 10,700.00                                     | 8,835.00            | 8,319.64            | 6,803.82            | 50.47           | 34.38       | -6.00                 | 1,264.75                          | 7,046.64   | 5,629.93             | 5,566.38              | 63.55                   | 88.588            |                    |         |
| 10,800.00                                     | 8,835.00            | 8,321.11            | 6,803.80            | 52.06           | 34.39       | -5.96                 | 1,263.28                          | 7,046.70   | 5,536.46             | 5,472.94              | 63.52                   | 87.161            |                    |         |
| 10,900.00                                     | 8,835.00            | 8,322.62            | 6,803.78            | 53.68           | 34.41       | -5.91                 | 1,261.77                          | 7,046.76   | 5,443.22             | 5,379.73              | 63.49                   | 85.733            |                    |         |
| 11,000.00                                     | 8,835.00            | 8,324.17            | 6,803.76            | 55.32           | 34.43       | -5.87                 | 1,260.22                          | 7,046.83   | 5,350.22             | 5,286.76              | 63.46                   | 84.304            |                    |         |
| 11,100.00                                     | 8,835.00            | 8,325.77            | 6,803.74            | 57.00           | 34.45       | -5.82                 | 1,258.63                          | 7,046.90   | 5,257.48             | 5,194.04              | 63.44                   | 82.874            |                    |         |
| 11,200.00                                     | 8,835.00            | 8,327.40            | 6,803.72            | 58.70           | 34.47       | -5.78                 | 1,257.00                          | 7,046.97   | 5,165.01             | 5,101.59              | 63.42                   | 81.443            |                    |         |
| 11,300.00                                     | 8,835.00            | 8,329.08            | 6,803.71            | 60.41           | 34.48       | -5.73                 | 1,255.32                          | 7,047.04   | 5,072.82             | 5,009.42              | 63.40                   | 80.012            |                    |         |
| 11,400.00                                     | 8,835.00            | 8,330.80            | 6,803.69            | 62.15           | 34.50       | -5.68                 | 1,253.60                          | 7,047.11   | 4,980.93             | 4,917.55              | 63.39                   | 78.580            |                    |         |
| 11,500.00                                     | 8,835.00            | 8,332.57            | 6,803.67            | 63.91           | 34.52       | -5.63                 | 1,251.83                          | 7,047.19   | 4,889.36             | 4,825.99              | 63.38                   | 77.148            |                    |         |
| 11,600.00                                     | 8,835.00            | 8,334.40            | 6,803.65            | 65.69           | 34.54       | -5.57                 | 1,250.01                          | 7,047.27   | 4,798.13             | 4,734.76              | 63.37                   | 75.715            |                    |         |
| 11,700.00                                     | 8,835.00            | 8,336.27            | 6,803.62            | 67.47           | 34.57       | -5.52                 | 1,248.14                          | 7,047.36   | 4,707.25             | 4,643.88              | 63.37                   | 74.282            |                    |         |
| 11,800.00                                     | 8,835.00            | 8,338.20            | 6,803.60            | 69.28           | 34.59       | -5.47                 | 1,246.21                          | 7,047.45   | 4,616.74             | 4,553.37              | 63.37                   | 72.848            |                    |         |
| 11,900.00                                     | 8,835.00            | 8,339.00            | 6,803.40            | 71.09           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 4,526.72             | 4,463.17              | 63.55                   | 71.232            |                    |         |
| 12,000.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 72.92           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 4,437.02             | 4,373.47              | 63.54                   | 69.825            |                    |         |
| 12,100.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 74.76           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 4,347.76             | 4,284.22              | 63.55                   | 68.418            |                    |         |
| 12,200.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 76.61           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 4,258.99             | 4,195.43              | 63.56                   | 67.010            |                    |         |
| 12,300.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 78.47           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 4,170.72             | 4,107.15              | 63.58                   | 65.602            |                    |         |
| 12,400.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 80.34           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 4,083.00             | 4,019.40              | 63.60                   | 64.193            |                    |         |
| 12,500.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 82.22           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 3,995.85             | 3,932.21              | 63.64                   | 62.786            |                    |         |
| 12,600.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 84.11           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 3,909.32             | 3,845.63              | 63.69                   | 61.378            |                    |         |
| 12,700.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 86.00           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 3,823.45             | 3,759.69              | 63.75                   | 59.972            |                    |         |
| 12,800.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 87.90           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 3,738.27             | 3,674.44              | 63.83                   | 58.567            |                    |         |
| 12,900.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 89.81           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 3,653.85             | 3,589.93              | 63.92                   | 57.164            |                    |         |
| 13,000.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 91.72           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 3,570.24             | 3,506.21              | 64.02                   | 55.764            |                    |         |
| 13,100.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 93.64           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 3,487.48             | 3,423.33              | 64.15                   | 54.367            |                    |         |
| 13,200.00                                     | 8,835.00            | 8,373.08            | 6,803.26            | 95.56           | 34.98       | -4.46                 | 1,211.37                          | 7,049.21   | 3,405.61             | 3,341.24              | 64.37                   | 52.911            |                    |         |
| 13,300.00                                     | 8,835.00            | 8,376.07            | 6,803.22            | 97.49           | 35.02       | -4.37                 | 1,208.39                          | 7,049.37   | 3,324.75             | 3,260.21              | 64.54                   | 51.518            |                    |         |
| 13,400.00                                     | 8,835.00            | 8,379.07            | 6,803.18            | 99.42           | 35.05       | -4.29                 | 1,205.39                          | 7,049.53   | 3,244.96             | 3,180.23              | 64.72                   | 50.135            |                    |         |
| 13,500.00                                     | 8,835.00            | 8,382.09            | 6,803.14            | 101.36          | 35.09       | -4.20                 | 1,202.38                          | 7,049.69   | 3,166.30             | 3,101.37              | 64.93                   | 48.763            |                    |         |
| 13,600.00                                     | 8,835.00            | 8,385.11            | 6,803.09            | 103.30          | 35.12       | -4.11                 | 1,199.36                          | 7,049.85   | 3,088.88             | 3,023.72              | 65.16                   | 47.403            |                    |         |
| 13,700.00                                     | 8,835.00            | 8,388.16            | 6,803.05            | 105.25          | 35.16       | -4.03                 | 1,196.32                          | 7,050.01   | 3,012.79             | 2,947.37              | 65.41                   | 46.057            |                    |         |
| 13,800.00                                     | 8,835.00            | 8,391.22            | 6,803.00            | 107.20          | 35.19       | -3.94                 | 1,193.27                          | 7,050.18   | 2,938.12             | 2,872.43              | 65.69                   | 44.728            |                    |         |
| 13,900.00                                     | 8,835.00            | 8,394.29            | 6,802.95            | 109.15          | 35.23       | -3.85                 | 1,190.20                          | 7,050.34   | 2,864.99             | 2,799.01              | 65.99                   | 43.418            |                    |         |
| 14,000.00                                     | 8,835.00            | 8,397.38            | 6,802.89            | 111.10          | 35.27       | -3.76                 | 1,187.12                          | 7,050.51   | 2,793.52             | 2,727.22              | 66.31                   | 42.129            |                    |         |
| 14,100.00                                     | 8,835.00            | 8,400.48            | 6,802.83            | 113.06          | 35.30       | -3.67                 | 1,184.02                          | 7,050.67   | 2,723.85             | 2,657.19              | 66.66                   | 40.865            |                    |         |
| 14,200.00                                     | 8,835.00            | 8,403.60            | 6,802.78            | 115.03          | 35.34       | -3.58                 | 1,180.91                          | 7,050.84   | 2,656.10             | 2,589.08              | 67.03                   | 39.627            |                    |         |
| 14,300.00                                     | 8,835.00            | 8,406.73            | 6,802.71            | 116.99          | 35.37       | -3.49                 | 1,177.78                          | 7,051.01   | 2,590.44             | 2,523.02              | 67.43                   | 38.419            |                    |         |
| 14,400.00                                     | 8,835.00            | 8,409.87            | 6,802.65            | 118.96          | 35.41       | -3.40                 | 1,174.64                          | 7,051.18   | 2,527.03             | 2,459.18              | 67.85                   | 37.246            |                    |         |
| 14,500.00                                     | 8,835.00            | 8,413.03            | 6,802.58            | 120.93          | 35.45       | -3.31                 | 1,171.48                          | 7,051.35   | 2,466.04             | 2,397.74              | 68.29                   | 36.109            |                    |         |
| 14,600.00                                     | 8,835.00            | 8,416.21            | 6,802.51            | 122.90          | 35.48       | -3.21                 | 1,168.31                          | 7,051.53   | 2,407.64             | 2,338.88              | 68.76                   | 35.013            |                    |         |
| 14,700.00                                     | 8,835.00            | 8,419.40            | 6,802.44            | 124.88          | 35.52       | -3.12                 | 1,165.13                          | 7,051.70   | 2,352.05             | 2,282.79              | 69.26                   | 33.961            |                    |         |
| 14,800.00                                     | 8,835.00            | 8,422.61            | 6,802.36            | 126.86          | 35.56       | -3.03                 | 1,161.93                          | 7,051.87   | 2,299.46             | 2,229.69              | 69.77                   | 32.958            |                    |         |
| 14,900.00                                     | 8,835.00            | 8,425.83            | 6,802.29            | 128.84          | 35.60       | -2.94                 | 1,158.71                          | 7,052.05   | 2,250.07             | 2,179.77              | 70.30                   | 32.005            |                    |         |
| 15,000.00                                     | 8,835.00            | 8,429.07            | 6,802.20            | 130.82          | 35.63       | -2.84                 | 1,155.48                          | 7,052.23   | 2,204.12             | 2,133.26              | 70.86                   | 31.107            |                    |         |
| 15,100.00                                     | 8,835.00            | 8,432.32            | 6,802.12            | 132.80          | 35.67       | -2.75                 | 1,152.23                          | 7,052.41   | 2,161.80             | 2,090.37              | 71.43                   | 30.265            |                    |         |
| 15,200.00                                     | 8,835.00            | 8,435.59            | 6,802.03            | 134.79          | 35.71       | -2.65                 | 1,148.97                          | 7,052.59   | 2,123.35             | 2,051.33              | 72.02                   | 29.481            |                    |         |
| 15,300.00                                     | 8,835.00            | 8,438.88            | 6,801.94            | 136.78          | 35.75       | -2.56                 | 1,145.69                          | 7,052.77   | 2,088.98             | 2,016.34              | 72.64                   | 28.758            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw 13 State 11H - Wellbore #1 - Wellbore #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Site Error:</b> | 5.00 ft |
|-------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 111-GYRO-NS-CT, 6243-MWD+HDGM                                                   |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                       |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                           | Warning |
| Measured Depth (ft)                                                                             | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor         |         |
| 15,400.00                                                                                       | 8,835.00            | 8,442.18            | 6,801.85            | 138.76          | 35.79       | -2.46                 | 1,142.39                          | 7,052.95   | 2,058.88             | 1,985.60              | 73.28                   | 28.095                    |         |
| 15,500.00                                                                                       | 8,835.00            | 8,454.00            | 6,801.50            | 140.76          | 35.92       | -2.12                 | 1,130.59                          | 7,053.61   | 2,033.28             | 1,959.35              | 73.93                   | 27.504                    |         |
| 15,600.00                                                                                       | 8,835.00            | 8,454.00            | 6,801.50            | 142.75          | 35.92       | -2.12                 | 1,130.59                          | 7,053.61   | 2,012.28             | 1,937.63              | 74.65                   | 26.956                    |         |
| 15,700.00                                                                                       | 8,835.00            | 8,454.00            | 6,801.50            | 144.74          | 35.92       | -2.12                 | 1,130.59                          | 7,053.61   | 1,996.07             | 1,920.65              | 75.42                   | 26.465                    |         |
| 15,800.00                                                                                       | 8,835.00            | 8,456.09            | 6,801.43            | 146.74          | 35.95       | -2.06                 | 1,128.51                          | 7,053.72   | 1,984.77             | 1,908.54              | 76.24                   | 26.035                    |         |
| 15,900.00                                                                                       | 8,835.00            | 8,460.59            | 6,801.29            | 148.73          | 36.00       | -1.93                 | 1,124.02                          | 7,053.97   | 1,978.46             | 1,901.37              | 77.09                   | 25.665                    |         |
| 15,975.33                                                                                       | 8,835.00            | 8,463.95            | 6,801.18            | 150.24          | 36.04       | -1.83                 | 1,120.67                          | 7,054.16   | 1,977.03             | 1,899.27              | 77.76                   | 25.423                    | CC      |
| 16,000.00                                                                                       | 8,835.00            | 8,465.04            | 6,801.15            | 150.73          | 36.05       | -1.80                 | 1,119.58                          | 7,054.22   | 1,977.18             | 1,899.19              | 77.99                   | 25.351                    | ES      |
| 16,100.00                                                                                       | 8,835.00            | 8,469.42            | 6,801.00            | 152.73          | 36.10       | -1.68                 | 1,115.20                          | 7,054.46   | 1,980.95             | 1,902.01              | 78.94                   | 25.096                    |         |
| 16,200.00                                                                                       | 8,835.00            | 8,473.75            | 6,800.86            | 154.73          | 36.16       | -1.55                 | 1,110.88                          | 7,054.70   | 1,989.73             | 1,909.82              | 79.91                   | 24.900                    |         |
| 16,300.00                                                                                       | 8,835.00            | 8,478.03            | 6,800.73            | 156.73          | 36.21       | -1.43                 | 1,106.62                          | 7,054.93   | 2,003.46             | 1,922.56              | 80.89                   | 24.766                    |         |
| 16,400.00                                                                                       | 8,835.00            | 8,482.24            | 6,800.59            | 158.74          | 36.26       | -1.30                 | 1,102.41                          | 7,055.15   | 2,022.03             | 1,940.16              | 81.87                   | 24.697                    |         |
| 16,500.00                                                                                       | 8,835.00            | 8,486.41            | 6,800.45            | 160.74          | 36.30       | -1.18                 | 1,098.25                          | 7,055.38   | 2,045.33             | 1,962.50              | 82.83                   | 24.694                    |         |
| 16,600.00                                                                                       | 8,835.00            | 8,490.52            | 6,800.31            | 162.74          | 36.35       | -1.06                 | 1,094.15                          | 7,055.60   | 2,073.17             | 1,989.44              | 83.74                   | 24.758                    |         |
| 16,700.00                                                                                       | 8,835.00            | 8,494.58            | 6,800.18            | 164.75          | 36.40       | -0.95                 | 1,090.10                          | 7,055.81   | 2,105.40             | 2,020.81              | 84.59                   | 24.888                    |         |
| 16,800.00                                                                                       | 8,835.00            | 8,498.59            | 6,800.04            | 166.76          | 36.45       | -0.83                 | 1,086.10                          | 7,056.02   | 2,141.81             | 2,056.42              | 85.38                   | 25.084                    |         |
| 16,900.00                                                                                       | 8,835.00            | 8,502.54            | 6,799.91            | 168.77          | 36.49       | -0.72                 | 1,082.15                          | 7,056.23   | 2,182.18             | 2,096.08              | 86.10                   | 25.343                    |         |
| 17,000.00                                                                                       | 8,835.00            | 8,506.45            | 6,799.77            | 170.77          | 36.54       | -0.60                 | 1,078.25                          | 7,056.43   | 2,226.31             | 2,139.56              | 86.75                   | 25.663                    |         |
| 17,100.00                                                                                       | 8,835.00            | 8,510.31            | 6,799.64            | 172.78          | 36.59       | -0.49                 | 1,074.39                          | 7,056.63   | 2,273.98             | 2,186.66              | 87.32                   | 26.042                    |         |
| 17,200.00                                                                                       | 8,835.00            | 8,514.13            | 6,799.51            | 174.79          | 36.63       | -0.38                 | 1,070.59                          | 7,056.83   | 2,324.96             | 2,237.15              | 87.82                   | 26.475                    |         |
| 17,300.00                                                                                       | 8,835.00            | 8,517.89            | 6,799.38            | 176.81          | 36.68       | -0.27                 | 1,066.83                          | 7,057.02   | 2,379.05             | 2,290.81              | 88.25                   | 26.959                    |         |
| 17,400.00                                                                                       | 8,835.00            | 8,521.61            | 6,799.25            | 178.82          | 36.72       | -0.16                 | 1,063.11                          | 7,057.21   | 2,436.04             | 2,347.43              | 88.61                   | 27.491                    |         |
| 17,500.00                                                                                       | 8,835.00            | 8,525.29            | 6,799.12            | 180.83          | 36.76       | -0.06                 | 1,059.45                          | 7,057.40   | 2,495.73             | 2,406.82              | 88.92                   | 28.068                    |         |
| 17,600.00                                                                                       | 8,835.00            | 8,528.92            | 6,798.99            | 182.84          | 36.81       | 0.05                  | 1,055.82                          | 7,057.58   | 2,557.94             | 2,468.77              | 89.17                   | 28.687                    |         |
| 17,700.00                                                                                       | 8,835.00            | 8,532.51            | 6,798.86            | 184.86          | 36.85       | 0.15                  | 1,052.24                          | 7,057.76   | 2,622.47             | 2,533.10              | 89.37                   | 29.344                    |         |
| 17,800.00                                                                                       | 8,835.00            | 8,536.06            | 6,798.73            | 186.87          | 36.89       | 0.25                  | 1,048.70                          | 7,057.94   | 2,689.17             | 2,599.64              | 89.53                   | 30.036                    |         |
| 17,900.00                                                                                       | 8,835.00            | 8,539.56            | 6,798.61            | 188.89          | 36.93       | 0.35                  | 1,045.20                          | 7,058.11   | 2,757.87             | 2,668.22              | 89.66                   | 30.761                    |         |
| 18,000.00                                                                                       | 8,835.00            | 8,543.03            | 6,798.48            | 190.91          | 36.97       | 0.45                  | 1,041.74                          | 7,058.28   | 2,828.44             | 2,738.70              | 89.75                   | 31.516                    |         |
| 18,100.00                                                                                       | 8,835.00            | 8,546.45            | 6,798.36            | 192.92          | 37.01       | 0.55                  | 1,038.32                          | 7,058.45   | 2,900.74             | 2,810.93              | 89.81                   | 32.299                    |         |
| 18,200.00                                                                                       | 8,835.00            | 8,550.64            | 6,798.20            | 194.94          | 37.06       | 0.67                  | 1,034.14                          | 7,058.66   | 2,974.63             | 2,884.78              | 89.86                   | 33.104                    |         |
| 18,300.00                                                                                       | 8,835.00            | 8,557.57            | 6,797.95            | 196.96          | 37.15       | 0.87                  | 1,027.23                          | 7,059.00   | 3,050.01             | 2,960.10              | 89.91                   | 33.923                    |         |
| 18,400.00                                                                                       | 8,835.00            | 8,565.05            | 6,797.66            | 198.98          | 37.24       | 1.09                  | 1,019.77                          | 7,059.39   | 3,126.75             | 3,036.80              | 89.95                   | 34.759                    |         |
| 18,500.00                                                                                       | 8,835.00            | 8,573.15            | 6,797.35            | 201.00          | 37.33       | 1.32                  | 1,011.68                          | 7,059.83   | 3,204.77             | 3,114.78              | 90.00                   | 35.610                    |         |
| 18,600.00                                                                                       | 8,835.00            | 8,581.96            | 6,797.00            | 203.02          | 37.44       | 1.58                  | 1,002.89                          | 7,060.32   | 3,283.97             | 3,193.93              | 90.04                   | 36.473                    |         |
| 18,700.00                                                                                       | 8,835.00            | 8,591.57            | 6,796.62            | 205.04          | 37.56       | 1.85                  | 993.30                            | 7,060.87   | 3,364.26             | 3,274.17              | 90.09                   | 37.344                    |         |
| 18,800.00                                                                                       | 8,835.00            | 8,602.10            | 6,796.19            | 207.06          | 37.68       | 2.16                  | 982.80                            | 7,061.51   | 3,445.57             | 3,355.42              | 90.15                   | 38.222                    |         |
| 18,900.00                                                                                       | 8,835.00            | 8,613.69            | 6,795.70            | 209.08          | 37.82       | 2.49                  | 971.25                            | 7,062.24   | 3,527.82             | 3,437.60              | 90.22                   | 39.102                    |         |
| 19,000.00                                                                                       | 8,835.00            | 8,626.49            | 6,795.14            | 211.10          | 37.98       | 2.86                  | 958.48                            | 7,063.08   | 3,610.94             | 3,520.63              | 90.32                   | 39.981                    |         |
| 19,100.00                                                                                       | 8,835.00            | 19,100.00           | 6,793.08            | 213.12          | 168.47      | 4.73                  | 893.20                            | 7,067.94   | 3,694.56             | 3,488.19              | 206.37                  | 17.902                    | SF      |
| 19,200.00                                                                                       | 8,835.00            | 8,746.53            | 6,791.76            | 215.15          | 39.45       | 6.28                  | 838.85                            | 7,072.11   | 3,779.37             | 3,687.15              | 92.22                   | 40.983                    |         |
| 19,308.27                                                                                       | 8,835.00            | 8,752.44            | 6,791.71            | 217.34          | 39.53       | 6.45                  | 832.95                            | 7,072.58   | 3,871.70             | 3,779.46              | 92.24                   | 41.975                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|---------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 106-MWD+IGRF, 2746-MWD+IGRF |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.00 ft |
| Reference                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                                        | 0.00                | 0.00                | 0.00                | 0.50            | 5.00        | 65.80                 | 2,649.20                          | 5,895.07   | 6,463.22             |                       |                         |                   |                    |         |
| 100.00                                      | 100.00              | 50.31               | 50.31               | 0.52            | 5.00        | 65.80                 | 2,649.04                          | 5,895.12   | 6,462.96             | 6,457.44              | 5.52                    | 1,171.200         |                    |         |
| 200.00                                      | 200.00              | 323.76              | 323.69              | 0.70            | 5.08        | 65.79                 | 2,648.06                          | 5,890.48   | 6,460.82             | 6,455.04              | 5.79                    | 1,116.780         |                    |         |
| 300.00                                      | 300.00              | 390.22              | 390.10              | 0.99            | 5.13        | 65.78                 | 2,648.84                          | 5,888.28   | 6,458.29             | 6,452.17              | 6.12                    | 1,055.771         |                    |         |
| 400.00                                      | 400.00              | 456.47              | 456.33              | 1.31            | 5.19        | 65.77                 | 2,649.33                          | 5,886.64   | 6,456.32             | 6,449.82              | 6.50                    | 993.809           |                    |         |
| 500.00                                      | 500.00              | 538.19              | 538.03              | 1.65            | 5.28        | 65.76                 | 2,649.68                          | 5,885.07   | 6,454.73             | 6,447.82              | 6.92                    | 932.933           |                    |         |
| 600.00                                      | 600.00              | 608.03              | 607.86              | 1.99            | 5.36        | 65.75                 | 2,650.16                          | 5,883.89   | 6,453.49             | 6,446.14              | 7.35                    | 878.303           |                    |         |
| 700.00                                      | 700.00              | 687.44              | 687.26              | 2.34            | 5.47        | 65.74                 | 2,650.92                          | 5,882.88   | 6,452.71             | 6,444.91              | 7.80                    | 826.813           |                    |         |
| 800.00                                      | 800.00              | 790.97              | 790.79              | 2.69            | 5.63        | 65.73                 | 2,651.95                          | 5,881.67   | 6,452.06             | 6,443.75              | 8.31                    | 775.995           |                    |         |
| 900.00                                      | 900.00              | 935.18              | 934.98              | 3.04            | 5.88        | 65.72                 | 2,652.75                          | 5,879.64   | 6,451.00             | 6,442.08              | 8.92                    | 723.103           |                    |         |
| 1,000.00                                    | 1,000.00            | 1,014.95            | 1,014.73            | 3.40            | 6.04        | 65.71                 | 2,653.11                          | 5,878.38   | 6,449.75             | 6,440.32              | 9.43                    | 683.909           |                    |         |
| 1,100.00                                    | 1,100.00            | 1,070.71            | 1,070.49            | 3.75            | 6.15        | 65.70                 | 2,653.45                          | 5,877.76   | 6,449.00             | 6,439.10              | 9.90                    | 651.493           |                    |         |
| 1,166.58                                    | 1,166.58            | 1,111.00            | 1,110.78            | 3.99            | 6.24        | 65.70                 | 2,653.71                          | 5,877.57   | 6,448.88             | 6,438.66              | 10.22                   | 631.031           |                    |         |
| 1,200.00                                    | 1,200.00            | 1,127.60            | 1,127.38            | 4.11            | 6.27        | 65.70                 | 2,653.83                          | 5,877.55   | 6,448.93             | 6,438.56              | 10.37                   | 621.704           |                    |         |
| 1,300.00                                    | 1,300.00            | 1,189.27            | 1,189.04            | 4.46            | 6.40        | 65.70                 | 2,654.43                          | 5,877.66   | 6,449.49             | 6,438.63              | 10.86                   | 593.877           |                    |         |
| 1,400.00                                    | 1,400.00            | 1,259.22            | 1,258.99            | 4.82            | 6.55        | 65.69                 | 2,655.26                          | 5,878.14   | 6,450.60             | 6,439.23              | 11.37                   | 567.439           |                    |         |
| 1,500.00                                    | 1,500.00            | 1,390.59            | 1,390.35            | 5.18            | 6.85        | 65.69                 | 2,656.31                          | 5,879.50   | 6,451.93             | 6,439.91              | 12.02                   | 536.624           |                    |         |
| 1,600.00                                    | 1,600.00            | 1,476.80            | 1,476.55            | 5.53            | 7.06        | 65.69                 | 2,656.62                          | 5,880.23   | 6,452.85             | 6,440.27              | 12.58                   | 512.793           |                    |         |
| 1,700.00                                    | 1,700.00            | 1,594.05            | 1,593.80            | 5.89            | 7.34        | 65.69                 | 2,656.62                          | 5,881.45   | 6,453.81             | 6,440.58              | 13.23                   | 487.922           |                    |         |
| 1,800.00                                    | 1,800.00            | 1,715.24            | 1,714.98            | 6.25            | 7.65        | 65.70                 | 2,656.26                          | 5,882.48   | 6,454.47             | 6,440.57              | 13.89                   | 464.562           |                    |         |
| 1,900.00                                    | 1,900.00            | 1,840.59            | 1,840.33            | 6.61            | 7.98        | 65.70                 | 2,656.35                          | 5,882.75   | 6,454.68             | 6,440.10              | 14.58                   | 442.557           |                    |         |
| 2,000.00                                    | 2,000.00            | 1,927.35            | 1,927.09            | 6.96            | 8.22        | 65.70                 | 2,656.15                          | 5,882.94   | 6,454.79             | 6,439.61              | 15.18                   | 425.248           |                    |         |
| 2,100.00                                    | 2,099.99            | 2,022.00            | 2,021.74            | 7.32            | 8.48        | 78.48                 | 2,656.50                          | 5,883.15   | 6,454.98             | 6,439.18              | 15.80                   | 408.520           |                    |         |
| 2,200.00                                    | 2,199.96            | 2,177.12            | 2,176.85            | 7.68            | 8.93        | 78.52                 | 2,656.98                          | 5,882.87   | 6,454.44             | 6,437.84              | 16.60                   | 388.726           |                    |         |
| 2,300.00                                    | 2,299.86            | 2,280.36            | 2,280.10            | 8.04            | 9.23        | 78.57                 | 2,657.08                          | 5,882.10   | 6,452.92             | 6,435.66              | 17.26                   | 373.819           |                    |         |
| 2,400.00                                    | 2,399.68            | 2,356.04            | 2,355.77            | 8.39            | 9.45        | 78.63                 | 2,656.89                          | 5,881.89   | 6,451.36             | 6,433.52              | 17.84                   | 361.629           |                    |         |
| 2,500.00                                    | 2,499.37            | 2,458.35            | 2,458.08            | 8.75            | 9.76        | 78.71                 | 2,656.80                          | 5,881.82   | 6,449.72             | 6,431.22              | 18.50                   | 348.686           |                    |         |
| 2,600.00                                    | 2,598.90            | 2,563.07            | 2,562.80            | 9.11            | 10.07       | 78.82                 | 2,656.95                          | 5,881.19   | 6,447.34             | 6,428.17              | 19.17                   | 336.334           |                    |         |
| 2,700.00                                    | 2,698.26            | 2,624.53            | 2,624.26            | 9.46            | 10.26       | 78.90                 | 2,657.13                          | 5,881.11   | 6,445.13             | 6,425.42              | 19.71                   | 326.936           |                    |         |
| 2,800.00                                    | 2,797.40            | 2,743.69            | 2,743.42            | 9.82            | 10.45       | 79.06                 | 2,657.23                          | 5,881.26   | 6,442.77             | 6,422.51              | 20.26                   | 317.998           |                    |         |
| 2,900.00                                    | 2,896.30            | 2,808.21            | 2,807.94            | 10.18           | 10.46       | 79.17                 | 2,657.32                          | 5,881.25   | 6,440.06             | 6,419.44              | 20.63                   | 312.184           |                    |         |
| 3,000.00                                    | 2,994.93            | 2,872.00            | 2,871.72            | 10.54           | 10.47       | 79.27                 | 2,658.49                          | 5,881.55   | 6,437.97             | 6,416.97              | 21.00                   | 306.607           |                    |         |
| 3,100.00                                    | 3,093.26            | 2,872.00            | 2,871.72            | 10.90           | 10.47       | 79.29                 | 2,658.49                          | 5,881.55   | 6,436.37             | 6,415.01              | 21.35                   | 301.431           |                    |         |
| 3,195.07                                    | 3,186.42            | 2,934.39            | 2,934.06            | 11.24           | 10.49       | 79.39                 | 2,660.79                          | 5,882.21   | 6,435.29             | 6,413.58              | 21.71                   | 296.396           |                    |         |
| 3,200.00                                    | 3,191.25            | 2,936.52            | 2,936.19            | 11.26           | 10.49       | 79.39                 | 2,660.89                          | 5,882.24   | 6,435.26             | 6,413.53              | 21.73                   | 296.146           |                    |         |
| 3,276.12                                    | 3,265.71            | 2,966.00            | 2,965.63            | 11.53           | 10.50       | 79.44                 | 2,662.37                          | 5,882.69   | 6,434.96             | 6,412.95              | 22.01                   | 292.353           |                    |         |
| 3,300.00                                    | 3,289.08            | 2,966.00            | 2,965.63            | 11.62           | 10.50       | 79.44                 | 2,662.37                          | 5,882.69   | 6,435.00             | 6,412.91              | 22.10                   | 291.240           |                    |         |
| 3,400.00                                    | 3,386.91            | 3,031.44            | 3,030.93            | 11.98           | 10.52       | 79.53                 | 2,666.40                          | 5,883.94   | 6,435.49             | 6,413.01              | 22.48                   | 286.228           |                    |         |
| 3,500.00                                    | 3,484.74            | 3,097.61            | 3,096.89            | 12.35           | 10.55       | 79.61                 | 2,671.32                          | 5,885.47   | 6,436.75             | 6,413.87              | 22.88                   | 281.342           |                    |         |
| 3,600.00                                    | 3,582.58            | 3,191.34            | 3,190.32            | 12.72           | 10.61       | 79.73                 | 2,678.70                          | 5,887.67   | 6,438.29             | 6,414.99              | 23.30                   | 276.293           |                    |         |
| 3,700.00                                    | 3,680.41            | 3,298.83            | 3,297.43            | 13.09           | 10.69       | 79.86                 | 2,687.33                          | 5,890.09   | 6,439.83             | 6,416.08              | 23.75                   | 271.128           |                    |         |
| 3,800.00                                    | 3,778.24            | 3,415.41            | 3,413.64            | 13.46           | 10.79       | 80.01                 | 2,696.29                          | 5,892.61   | 6,441.19             | 6,416.96              | 24.23                   | 265.873           |                    |         |
| 3,900.00                                    | 3,876.08            | 3,474.17            | 3,472.21            | 13.83           | 10.85       | 80.08                 | 2,700.86                          | 5,893.87   | 6,442.66             | 6,418.01              | 24.65                   | 261.349           |                    |         |
| 4,000.00                                    | 3,973.91            | 3,531.00            | 3,528.76            | 14.21           | 10.91       | 80.15                 | 2,706.22                          | 5,895.31   | 6,444.98             | 6,419.91              | 25.08                   | 257.002           |                    |         |
| 4,100.00                                    | 4,071.74            | 3,562.16            | 3,559.74            | 14.58           | 10.95       | 80.18                 | 2,709.51                          | 5,896.24   | 6,448.13             | 6,422.66              | 25.48                   | 253.101           |                    |         |
| 4,200.00                                    | 4,169.57            | 3,625.00            | 3,622.12            | 14.96           | 11.03       | 80.25                 | 2,716.70                          | 5,898.57   | 6,452.30             | 6,426.38              | 25.92                   | 248.944           |                    |         |
| 4,300.00                                    | 4,267.41            | 3,683.97            | 3,680.61            | 15.33           | 11.11       | 80.30                 | 2,723.80                          | 5,900.99   | 6,457.06             | 6,430.69              | 26.36                   | 244.922           |                    |         |
| 4,400.00                                    | 4,365.24            | 3,823.64            | 3,819.13            | 15.71           | 11.32       | 80.43                 | 2,740.86                          | 5,906.12   | 6,461.68             | 6,434.73              | 26.95                   | 239.761           |                    |         |
| 4,500.00                                    | 4,463.07            | 3,946.68            | 3,941.23            | 16.09           | 11.52       | 80.55                 | 2,755.67                          | 5,909.49   | 6,465.28             | 6,437.75              | 27.53                   | 234.824           |                    |         |
| 4,600.00                                    | 4,560.90            | 4,002.00            | 3,996.05            | 16.47           | 11.62       | 80.59                 | 2,762.92                          | 5,911.16   | 6,469.59             | 6,441.59              | 28.00                   | 231.094           |                    |         |
| 4,700.00                                    | 4,658.74            | 4,218.02            | 4,210.24            | 16.85           | 12.05       | 80.77                 | 2,790.56                          | 5,915.52   | 6,472.50             | 6,443.69              | 28.81                   | 224.660           |                    |         |
| 4,800.00                                    | 4,756.57            | 4,258.17            | 4,250.05            | 17.23           | 12.14       | 80.81                 | 2,795.78                          | 5,916.26   | 6,475.77             | 6,446.51              | 29.26                   | 221.309           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|---------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 106-MWD+IGRF, 2746-MWD+IGRF |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.00 ft |
| Reference                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 4,900.00                                    | 4,854.40            | 4,900.00            | 4,343.15            | 17.61           | 13.60       | 80.88                 | 2,808.41                          | 5,918.45   | 6,479.65             | 6,448.62              | 31.03                   | 208.836           |                    |         |
| 5,000.00                                    | 4,952.23            | 4,421.97            | 4,412.34            | 17.99           | 12.51       | 80.94                 | 2,817.61                          | 5,920.09   | 6,483.55             | 6,453.18              | 30.37                   | 213.487           |                    |         |
| 5,100.00                                    | 5,050.07            | 4,472.00            | 4,461.89            | 18.37           | 12.63       | 80.98                 | 2,824.27                          | 5,921.79   | 6,488.32             | 6,457.46              | 30.85                   | 210.308           |                    |         |
| 5,200.00                                    | 5,147.90            | 4,536.74            | 4,526.00            | 18.75           | 12.79       | 81.03                 | 2,832.97                          | 5,924.40   | 6,493.77             | 6,462.39              | 31.38                   | 206.972           |                    |         |
| 5,300.00                                    | 5,245.73            | 5,300.00            | 4,644.39            | 19.14           | 14.76       | 81.14                 | 2,848.74                          | 5,929.18   | 6,499.16             | 6,465.54              | 33.62                   | 193.336           |                    |         |
| 5,400.00                                    | 5,343.56            | 9,608.44            | 7,429.60            | 19.52           | 45.82       | 106.21                | 598.39                            | 5,996.23   | 6,488.48             | 6,426.05              | 62.43                   | 103.935           |                    |         |
| 5,500.00                                    | 5,441.40            | 5,500.00            | 7,428.24            | 19.90           | 24.91       | 105.80                | 643.44                            | 5,996.40   | 6,461.10             | 6,418.26              | 42.84                   | 150.824           |                    |         |
| 5,600.00                                    | 5,539.23            | 9,568.93            | 7,428.51            | 20.29           | 45.14       | 105.85                | 637.89                            | 5,996.41   | 6,435.12             | 6,372.13              | 62.99                   | 102.159           |                    |         |
| 5,700.00                                    | 5,637.06            | 9,524.32            | 7,427.11            | 20.67           | 44.37       | 105.45                | 682.48                            | 5,996.53   | 6,410.48             | 6,347.63              | 62.85                   | 101.989           |                    |         |
| 5,800.00                                    | 5,734.90            | 9,484.77            | 7,425.59            | 21.05           | 43.69       | 105.09                | 722.00                            | 5,996.55   | 6,387.21             | 6,324.42              | 62.79                   | 101.724           |                    |         |
| 5,900.00                                    | 5,832.73            | 9,466.54            | 7,424.86            | 21.44           | 43.38       | 104.92                | 740.22                            | 5,996.53   | 6,365.35             | 6,302.28              | 63.07                   | 100.929           |                    |         |
| 6,000.00                                    | 5,930.56            | 9,447.82            | 7,424.14            | 21.83           | 43.07       | 104.75                | 758.92                            | 5,996.50   | 6,344.94             | 6,281.62              | 63.33                   | 100.193           |                    |         |
| 6,100.00                                    | 6,028.39            | 9,428.59            | 7,423.45            | 22.21           | 42.74       | 104.58                | 778.14                            | 5,996.45   | 6,326.00             | 6,262.43              | 63.57                   | 99.514            |                    |         |
| 6,200.00                                    | 6,126.23            | 9,408.83            | 7,422.79            | 22.60           | 42.40       | 104.40                | 797.89                            | 5,996.37   | 6,308.54             | 6,244.75              | 63.79                   | 98.894            |                    |         |
| 6,300.00                                    | 6,224.06            | 9,387.77            | 7,422.13            | 22.98           | 42.05       | 104.21                | 818.94                            | 5,996.27   | 6,292.56             | 6,228.58              | 63.98                   | 98.350            |                    |         |
| 6,400.00                                    | 6,321.89            | 9,362.84            | 7,421.37            | 23.37           | 41.63       | 103.98                | 843.85                            | 5,996.13   | 6,278.07             | 6,213.97              | 64.10                   | 97.943            |                    |         |
| 6,500.00                                    | 6,419.72            | 9,337.90            | 7,420.61            | 23.76           | 41.21       | 103.76                | 868.79                            | 5,995.95   | 6,265.08             | 6,200.87              | 64.21                   | 97.578            |                    |         |
| 6,600.00                                    | 6,517.56            | 6,600.00            | 7,417.89            | 24.14           | 18.96       | 103.03                | 948.94                            | 5,994.92   | 6,253.47             | 6,228.14              | 25.32                   | 246.948           |                    |         |
| 6,700.00                                    | 6,615.39            | 9,204.00            | 7,415.89            | 24.53           | 38.97       | 102.54                | 1,002.58                          | 5,994.01   | 6,243.46             | 6,180.46              | 63.00                   | 99.099            |                    |         |
| 6,800.00                                    | 6,713.22            | 9,204.00            | 7,415.89            | 24.92           | 38.97       | 102.54                | 1,002.58                          | 5,994.01   | 6,234.81             | 6,171.33              | 63.48                   | 98.211            |                    |         |
| 6,900.00                                    | 6,811.05            | 9,182.33            | 7,415.03            | 25.30           | 38.61       | 102.34                | 1,024.23                          | 5,993.52   | 6,227.68             | 6,164.07              | 63.60                   | 97.915            |                    |         |
| 7,000.00                                    | 6,908.89            | 9,174.05            | 7,414.75            | 25.69           | 38.47       | 102.27                | 1,032.50                          | 5,993.35   | 6,222.15             | 6,158.23              | 63.93                   | 97.333            |                    |         |
| 7,100.00                                    | 7,006.72            | 9,165.44            | 7,414.49            | 26.08           | 38.33       | 102.19                | 1,041.11                          | 5,993.18   | 6,218.21             | 6,153.97              | 64.23                   | 96.807            |                    |         |
| 7,200.00                                    | 7,104.55            | 9,156.49            | 7,414.25            | 26.47           | 38.19       | 102.11                | 1,050.05                          | 5,993.01   | 6,215.85             | 6,151.32              | 64.52                   | 96.338            |                    |         |
| 7,216.87                                    | 7,121.05            | 9,154.95            | 7,414.21            | 26.53           | 38.16       | 102.09                | 1,051.60                          | 5,992.98   | 6,215.60             | 6,151.03              | 64.57                   | 96.264            |                    |         |
| 7,300.00                                    | 7,202.57            | 9,147.63            | 7,414.05            | 26.85           | 38.04       | 102.02                | 1,058.91                          | 5,992.86   | 6,214.88             | 6,150.08              | 64.80                   | 95.914            |                    |         |
| 7,342.30                                    | 7,244.17            | 9,144.17            | 7,413.98            | 27.01           | 37.98       | 101.98                | 1,062.38                          | 5,992.80   | 6,214.78             | 6,149.87              | 64.91                   | 95.742            |                    |         |
| 7,400.00                                    | 7,301.06            | 9,139.73            | 7,413.89            | 27.23           | 37.91       | 101.95                | 1,066.81                          | 5,992.73   | 6,214.96             | 6,149.89              | 65.07                   | 95.512            |                    |         |
| 7,500.00                                    | 7,399.97            | 9,132.87            | 7,413.78            | 27.61           | 37.80       | 101.90                | 1,073.67                          | 5,992.62   | 6,216.09             | 6,150.75              | 65.34                   | 95.132            |                    |         |
| 7,600.00                                    | 7,499.23            | 9,127.12            | 7,413.69            | 27.98           | 37.70       | 101.88                | 1,079.42                          | 5,992.54   | 6,218.28             | 6,152.66              | 65.61                   | 94.772            |                    |         |
| 7,700.00                                    | 7,598.77            | 9,110.00            | 7,413.53            | 28.34           | 37.42       | 101.77                | 1,096.53                          | 5,992.32   | 6,221.55             | 6,155.87              | 65.68                   | 94.724            |                    |         |
| 7,800.00                                    | 7,698.53            | 9,110.00            | 7,413.53            | 28.70           | 37.42       | 101.83                | 1,096.53                          | 5,992.32   | 6,225.85             | 6,159.84              | 66.01                   | 94.320            |                    |         |
| 7,900.00                                    | 7,798.44            | 9,110.00            | 7,413.53            | 29.05           | 37.42       | 101.91                | 1,096.53                          | 5,992.32   | 6,231.21             | 6,164.90              | 66.32                   | 93.963            |                    |         |
| 8,000.00                                    | 7,898.42            | 9,110.00            | 7,413.53            | 29.39           | 37.42       | 102.01                | 1,096.53                          | 5,992.32   | 6,237.64             | 6,171.03              | 66.60                   | 93.652            |                    |         |
| 8,013.58                                    | 7,912.00            | 9,110.00            | 7,413.53            | 29.43           | 37.42       | 89.24                 | 1,096.53                          | 5,992.32   | 6,238.59             | 6,171.95              | 66.64                   | 93.614            |                    |         |
| 8,100.00                                    | 7,998.42            | 9,110.00            | 7,413.53            | 29.73           | 37.42       | 89.24                 | 1,096.53                          | 5,992.32   | 6,245.32             | 6,178.44              | 66.88                   | 93.386            |                    |         |
| 8,200.00                                    | 8,098.42            | 9,110.00            | 7,413.53            | 30.07           | 37.42       | 89.24                 | 1,096.53                          | 5,992.32   | 6,254.58             | 6,187.45              | 67.14                   | 93.163            |                    |         |
| 8,300.00                                    | 8,198.42            | 9,110.00            | 7,413.53            | 30.41           | 37.42       | 89.24                 | 1,096.53                          | 5,992.32   | 6,265.43             | 6,198.05              | 67.38                   | 92.983            |                    |         |
| 8,363.62                                    | 8,262.04            | 9,110.00            | 7,413.53            | 30.62           | 37.42       | 89.24                 | 1,096.53                          | 5,992.32   | 6,273.15             | 6,205.62              | 67.53                   | 92.891            |                    |         |
| 8,400.00                                    | 8,298.40            | 9,119.33            | 7,413.61            | 30.75           | 37.58       | -0.33                 | 1,087.20                          | 5,992.44   | 6,276.70             | 6,208.93              | 67.76                   | 92.628            |                    |         |
| 8,450.00                                    | 8,348.10            | 9,119.69            | 7,413.61            | 30.91           | 37.58       | -0.33                 | 1,086.84                          | 5,992.44   | 6,278.16             | 6,210.29              | 67.87                   | 92.504            |                    |         |
| 8,500.00                                    | 8,397.14            | 9,120.09            | 7,413.61            | 31.07           | 37.59       | -0.32                 | 1,086.45                          | 5,992.45   | 6,275.66             | 6,207.69              | 67.97                   | 92.330            |                    |         |
| 8,550.00                                    | 8,445.15            | 9,120.50            | 7,413.62            | 31.23           | 37.60       | -0.32                 | 1,086.03                          | 5,992.45   | 6,269.22             | 6,201.15              | 68.06                   | 92.109            |                    |         |
| 8,600.00                                    | 8,491.77            | 9,120.94            | 7,413.62            | 31.38           | 37.60       | -0.33                 | 1,085.59                          | 5,992.46   | 6,258.86             | 6,190.71              | 68.15                   | 91.842            |                    |         |
| 8,650.00                                    | 8,536.65            | 9,121.41            | 7,413.63            | 31.52           | 37.61       | -0.33                 | 1,085.13                          | 5,992.46   | 6,244.65             | 6,176.42              | 68.22                   | 91.532            |                    |         |
| 8,700.00                                    | 8,579.43            | 9,121.89            | 7,413.63            | 31.66           | 37.62       | -0.34                 | 1,084.65                          | 5,992.47   | 6,226.67             | 6,158.38              | 68.29                   | 91.181            |                    |         |
| 8,750.00                                    | 8,619.80            | 9,122.38            | 7,413.64            | 31.80           | 37.63       | -0.35                 | 1,084.15                          | 5,992.48   | 6,205.02             | 6,136.68              | 68.34                   | 90.792            |                    |         |
| 8,800.00                                    | 8,657.44            | 9,122.89            | 7,413.64            | 31.93           | 37.63       | -0.36                 | 1,083.64                          | 5,992.48   | 6,179.84             | 6,111.45              | 68.39                   | 90.365            |                    |         |
| 8,850.00                                    | 8,692.08            | 9,123.41            | 7,413.65            | 32.06           | 37.64       | -0.37                 | 1,083.13                          | 5,992.49   | 6,151.27             | 6,082.84              | 68.42                   | 89.903            |                    |         |
| 8,900.00                                    | 8,723.44            | 9,123.92            | 7,413.66            | 32.19           | 37.65       | -0.40                 | 1,082.61                          | 5,992.50   | 6,119.48             | 6,051.03              | 68.44                   | 89.407            |                    |         |
| 8,950.00                                    | 8,751.29            | 9,124.44            | 7,413.66            | 32.34           | 37.66       | -0.42                 | 1,082.10                          | 5,992.50   | 6,084.66             | 6,016.20              | 68.46                   | 88.880            |                    |         |
| 9,000.00                                    | 8,775.42            | 9,124.95            | 7,413.67            | 32.50           | 37.67       | -0.46                 | 1,081.59                          | 5,992.51   | 6,047.04             | 5,978.58              | 68.46                   | 88.324            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDCS Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|---------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 106-MWD+IGRF, 2746-MWD+IGRF |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.00 ft |
| Reference                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,050.00                                    | 8,795.64            | 9,125.44            | 7,413.67            | 32.67           | 37.68       | -0.51                 | 1,081.10                          | 5,992.52   | 6,006.85             | 5,938.39              | 68.46                   | 87.740            |                    |         |
| 9,100.00                                    | 8,811.80            | 9,125.91            | 7,413.68            | 32.87           | 37.68       | -0.58                 | 1,080.62                          | 5,992.52   | 5,964.34             | 5,895.89              | 68.45                   | 87.129            |                    |         |
| 9,150.00                                    | 8,823.77            | 9,126.36            | 7,413.69            | 33.10           | 37.69       | -0.68                 | 1,080.18                          | 5,992.53   | 5,919.80             | 5,851.36              | 68.44                   | 86.495            |                    |         |
| 9,200.00                                    | 8,831.47            | 9,126.77            | 7,413.69            | 33.34           | 37.70       | -0.83                 | 1,079.76                          | 5,992.54   | 5,873.51             | 5,805.09              | 68.42                   | 85.839            |                    |         |
| 9,250.00                                    | 8,834.84            | 9,127.15            | 7,413.70            | 33.60           | 37.70       | -1.08                 | 1,079.39                          | 5,992.54   | 5,825.80             | 5,757.40              | 68.41                   | 85.164            |                    |         |
| 9,263.62                                    | 8,835.00            | 9,127.24            | 7,413.70            | 33.67           | 37.71       | -1.18                 | 1,079.29                          | 5,992.54   | 5,812.60             | 5,744.20              | 68.40                   | 84.975            |                    |         |
| 9,300.00                                    | 8,835.00            | 9,127.50            | 7,413.70            | 33.88           | 37.71       | -1.17                 | 1,079.04                          | 5,992.55   | 5,777.25             | 5,708.86              | 68.39                   | 84.476            |                    |         |
| 9,400.00                                    | 8,835.00            | 9,128.20            | 7,413.71            | 34.53           | 37.72       | -1.14                 | 1,078.34                          | 5,992.56   | 5,680.13             | 5,611.78              | 68.35                   | 83.107            |                    |         |
| 9,500.00                                    | 8,835.00            | 9,128.91            | 7,413.72            | 35.30           | 37.73       | -1.11                 | 1,077.62                          | 5,992.57   | 5,583.12             | 5,514.81              | 68.30                   | 81.738            |                    |         |
| 9,600.00                                    | 8,835.00            | 9,129.65            | 7,413.73            | 36.17           | 37.75       | -1.08                 | 1,076.89                          | 5,992.58   | 5,486.21             | 5,417.95              | 68.26                   | 80.370            |                    |         |
| 9,700.00                                    | 8,835.00            | 9,130.40            | 7,413.74            | 37.13           | 37.76       | -1.05                 | 1,076.14                          | 5,992.59   | 5,389.41             | 5,321.19              | 68.22                   | 79.002            |                    |         |
| 9,800.00                                    | 8,835.00            | 9,131.17            | 7,413.75            | 38.18           | 37.77       | -1.02                 | 1,075.37                          | 5,992.60   | 5,292.74             | 5,224.56              | 68.18                   | 77.634            |                    |         |
| 9,900.00                                    | 8,835.00            | 9,131.95            | 7,413.76            | 39.31           | 37.78       | -0.99                 | 1,074.58                          | 5,992.61   | 5,196.19             | 5,128.06              | 68.13                   | 76.267            |                    |         |
| 10,000.00                                   | 8,835.00            | 9,132.76            | 7,413.77            | 40.51           | 37.80       | -0.95                 | 1,073.78                          | 5,992.62   | 5,099.77             | 5,031.68              | 68.09                   | 74.901            |                    |         |
| 10,100.00                                   | 8,835.00            | 9,133.58            | 7,413.79            | 41.78           | 37.81       | -0.92                 | 1,072.95                          | 5,992.64   | 5,003.50             | 4,935.45              | 68.04                   | 73.535            |                    |         |
| 10,200.00                                   | 8,835.00            | 9,134.43            | 7,413.80            | 43.10           | 37.82       | -0.88                 | 1,072.11                          | 5,992.65   | 4,907.37             | 4,839.37              | 68.00                   | 72.170            |                    |         |
| 10,300.00                                   | 8,835.00            | 9,135.29            | 7,413.81            | 44.49           | 37.84       | -0.85                 | 1,071.24                          | 5,992.66   | 4,811.40             | 4,743.45              | 67.95                   | 70.807            |                    |         |
| 10,400.00                                   | 8,835.00            | 9,136.18            | 7,413.83            | 45.92           | 37.85       | -0.81                 | 1,070.36                          | 5,992.67   | 4,715.59             | 4,647.69              | 67.90                   | 69.445            |                    |         |
| 10,500.00                                   | 8,835.00            | 9,137.09            | 7,413.84            | 47.39           | 37.87       | -0.77                 | 1,069.45                          | 5,992.69   | 4,619.97             | 4,552.11              | 67.86                   | 68.084            |                    |         |
| 10,600.00                                   | 8,835.00            | 9,138.02            | 7,413.86            | 48.91           | 37.88       | -0.73                 | 1,068.51                          | 5,992.70   | 4,524.53             | 4,456.72              | 67.81                   | 66.724            |                    |         |
| 10,700.00                                   | 8,835.00            | 9,138.98            | 7,413.88            | 50.47           | 37.90       | -0.69                 | 1,067.56                          | 5,992.72   | 4,429.30             | 4,361.54              | 67.76                   | 65.366            |                    |         |
| 10,800.00                                   | 8,835.00            | 9,139.96            | 7,413.90            | 52.06           | 37.91       | -0.65                 | 1,066.58                          | 5,992.73   | 4,334.28             | 4,266.57              | 67.71                   | 64.010            |                    |         |
| 10,900.00                                   | 8,835.00            | 9,140.97            | 7,413.91            | 53.68           | 37.93       | -0.61                 | 1,065.57                          | 5,992.75   | 4,239.49             | 4,171.82              | 67.66                   | 62.657            |                    |         |
| 11,000.00                                   | 8,835.00            | 9,142.01            | 7,413.93            | 55.32           | 37.95       | -0.56                 | 1,064.53                          | 5,992.77   | 4,144.94             | 4,077.33              | 67.61                   | 61.305            |                    |         |
| 11,100.00                                   | 8,835.00            | 9,143.07            | 7,413.95            | 57.00           | 37.97       | -0.52                 | 1,063.47                          | 5,992.78   | 4,050.65             | 3,983.09              | 67.56                   | 59.955            |                    |         |
| 11,200.00                                   | 8,835.00            | 9,144.17            | 7,413.98            | 58.70           | 37.98       | -0.47                 | 1,062.37                          | 5,992.80   | 3,956.65             | 3,889.14              | 67.51                   | 58.609            |                    |         |
| 11,300.00                                   | 8,835.00            | 9,145.29            | 7,414.00            | 60.41           | 38.00       | -0.43                 | 1,061.25                          | 5,992.82   | 3,862.95             | 3,795.49              | 67.46                   | 57.265            |                    |         |
| 11,400.00                                   | 8,835.00            | 9,146.45            | 7,414.02            | 62.15           | 38.02       | -0.38                 | 1,060.09                          | 5,992.84   | 3,769.56             | 3,702.16              | 67.41                   | 55.924            |                    |         |
| 11,500.00                                   | 8,835.00            | 9,147.64            | 7,414.05            | 63.91           | 38.04       | -0.33                 | 1,058.90                          | 5,992.86   | 3,676.53             | 3,609.18              | 67.35                   | 54.586            |                    |         |
| 11,600.00                                   | 8,835.00            | 9,148.87            | 7,414.07            | 65.69           | 38.06       | -0.28                 | 1,057.67                          | 5,992.88   | 3,583.87             | 3,516.57              | 67.30                   | 53.252            |                    |         |
| 11,700.00                                   | 8,835.00            | 9,150.13            | 7,414.10            | 67.47           | 38.08       | -0.22                 | 1,056.41                          | 5,992.90   | 3,491.62             | 3,424.37              | 67.25                   | 51.922            |                    |         |
| 11,800.00                                   | 8,835.00            | 9,151.43            | 7,414.13            | 69.28           | 38.10       | -0.17                 | 1,055.11                          | 5,992.92   | 3,399.80             | 3,332.61              | 67.20                   | 50.596            |                    |         |
| 11,900.00                                   | 8,835.00            | 9,152.78            | 7,414.16            | 71.09           | 38.13       | -0.11                 | 1,053.77                          | 5,992.95   | 3,308.46             | 3,241.32              | 67.14                   | 49.275            |                    |         |
| 12,000.00                                   | 8,835.00            | 9,154.16            | 7,414.19            | 72.92           | 38.15       | -0.05                 | 1,052.38                          | 5,992.97   | 3,217.63             | 3,150.54              | 67.09                   | 47.958            |                    |         |
| 12,100.00                                   | 8,835.00            | 9,155.59            | 7,414.23            | 74.76           | 38.17       | 0.01                  | 1,050.96                          | 5,993.00   | 3,127.37             | 3,060.32              | 67.04                   | 46.647            |                    |         |
| 12,200.00                                   | 8,835.00            | 9,157.06            | 7,414.26            | 76.61           | 38.20       | 0.07                  | 1,049.48                          | 5,993.02   | 3,037.71             | 2,970.71              | 67.00                   | 45.342            |                    |         |
| 12,300.00                                   | 8,835.00            | 9,158.58            | 7,414.30            | 78.47           | 38.22       | 0.13                  | 1,047.96                          | 5,993.05   | 2,948.71             | 2,881.76              | 66.95                   | 44.043            |                    |         |
| 12,400.00                                   | 8,835.00            | 9,160.16            | 7,414.34            | 80.34           | 38.25       | 0.20                  | 1,046.39                          | 5,993.08   | 2,860.44             | 2,793.54              | 66.91                   | 42.752            |                    |         |
| 12,500.00                                   | 8,835.00            | 9,161.78            | 7,414.39            | 82.22           | 38.27       | 0.27                  | 1,044.76                          | 5,993.11   | 2,772.97             | 2,706.10              | 66.87                   | 41.469            |                    |         |
| 12,600.00                                   | 8,835.00            | 9,163.47            | 7,414.43            | 84.11           | 38.30       | 0.34                  | 1,043.08                          | 5,993.14   | 2,686.37             | 2,619.54              | 66.84                   | 40.194            |                    |         |
| 12,700.00                                   | 8,835.00            | 9,165.21            | 7,414.48            | 86.00           | 38.33       | 0.41                  | 1,041.34                          | 5,993.17   | 2,600.74             | 2,533.93              | 66.81                   | 38.929            |                    |         |
| 12,800.00                                   | 8,835.00            | 9,167.01            | 7,414.53            | 87.90           | 38.36       | 0.48                  | 1,039.54                          | 5,993.21   | 2,516.16             | 2,449.37              | 66.79                   | 37.675            |                    |         |
| 12,900.00                                   | 8,835.00            | 9,168.89            | 7,414.59            | 89.81           | 38.39       | 0.56                  | 1,037.67                          | 5,993.24   | 2,432.75             | 2,365.98              | 66.77                   | 36.433            |                    |         |
| 13,000.00                                   | 8,835.00            | 9,170.83            | 7,414.65            | 91.72           | 38.42       | 0.64                  | 1,035.73                          | 5,993.28   | 2,350.63             | 2,283.86              | 66.77                   | 35.205            |                    |         |
| 13,100.00                                   | 8,835.00            | 9,172.84            | 7,414.71            | 93.64           | 38.45       | 0.73                  | 1,033.72                          | 5,993.32   | 2,269.95             | 2,203.18              | 66.78                   | 33.993            |                    |         |
| 13,200.00                                   | 8,835.00            | 9,174.93            | 7,414.78            | 95.56           | 38.49       | 0.82                  | 1,031.63                          | 5,993.36   | 2,190.86             | 2,124.07              | 66.80                   | 32.799            |                    |         |
| 13,300.00                                   | 8,835.00            | 9,177.10            | 7,414.85            | 97.49           | 38.53       | 0.91                  | 1,029.45                          | 5,993.41   | 2,113.55             | 2,046.72              | 66.83                   | 31.626            |                    |         |
| 13,400.00                                   | 8,835.00            | 9,179.36            | 7,414.92            | 99.42           | 38.56       | 1.00                  | 1,027.20                          | 5,993.45   | 2,038.20             | 1,971.32              | 66.88                   | 30.477            |                    |         |
| 13,500.00                                   | 8,835.00            | 9,181.72            | 7,415.01            | 101.36          | 38.60       | 1.10                  | 1,024.84                          | 5,993.50   | 1,965.06             | 1,898.11              | 66.94                   | 29.355            |                    |         |
| 13,600.00                                   | 8,835.00            | 9,184.17            | 7,415.09            | 103.30          | 38.64       | 1.20                  | 1,022.40                          | 5,993.56   | 1,894.36             | 1,827.34              | 67.02                   | 28.265            |                    |         |
| 13,700.00                                   | 8,835.00            | 9,186.72            | 7,415.19            | 105.25          | 38.68       | 1.31                  | 1,019.84                          | 5,993.61   | 1,826.41             | 1,759.29              | 67.12                   | 27.211            |                    |         |
| 13,800.00                                   | 8,835.00            | 9,189.39            | 7,415.29            | 107.20          | 38.73       | 1.42                  | 1,017.18                          | 5,993.67   | 1,761.52             | 1,694.28              | 67.24                   | 26.199            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|---------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 106-MWD+IGRF, 2746-MWD+IGRF |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.00 ft |
| Reference                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 13,900.00                                   | 8,835.00            | 9,192.18            | 7,415.39            | 109.15          | 38.77       | 1.54                  | 1,014.39                          | 5,993.73   | 1,700.03             | 1,632.66              | 67.37                   | 25.234            |                    |         |
| 14,000.00                                   | 8,835.00            | 9,195.09            | 7,415.51            | 111.10          | 38.82       | 1.66                  | 1,011.48                          | 5,993.80   | 1,642.32             | 1,574.80              | 67.52                   | 24.323            |                    |         |
| 14,100.00                                   | 8,835.00            | 9,198.14            | 7,415.63            | 113.06          | 38.87       | 1.79                  | 1,008.44                          | 5,993.87   | 1,588.82             | 1,521.13              | 67.69                   | 23.473            |                    |         |
| 14,200.00                                   | 8,835.00            | 9,201.34            | 7,415.77            | 115.03          | 38.92       | 1.93                  | 1,005.24                          | 5,993.94   | 1,539.96             | 1,472.08              | 67.88                   | 22.688            |                    |         |
| 14,300.00                                   | 8,835.00            | 9,204.69            | 7,415.92            | 116.99          | 38.98       | 2.07                  | 1,001.90                          | 5,994.02   | 1,496.19             | 1,428.10              | 68.09                   | 21.974            |                    |         |
| 14,400.00                                   | 8,835.00            | 9,208.21            | 7,416.07            | 118.96          | 39.04       | 2.21                  | 998.38                            | 5,994.11   | 1,457.97             | 1,389.63              | 68.34                   | 21.334            |                    |         |
| 14,500.00                                   | 8,835.00            | 9,211.91            | 7,416.25            | 120.93          | 39.10       | 2.37                  | 994.69                            | 5,994.20   | 1,425.74             | 1,357.10              | 68.64                   | 20.770            |                    |         |
| 14,600.00                                   | 8,835.00            | 9,215.81            | 7,416.43            | 122.90          | 39.16       | 2.53                  | 990.80                            | 5,994.30   | 1,399.93             | 1,330.90              | 69.03                   | 20.280            |                    |         |
| 14,700.00                                   | 8,835.00            | 9,219.91            | 7,416.64            | 124.88          | 39.23       | 2.71                  | 986.69                            | 5,994.41   | 1,380.89             | 1,311.36              | 69.53                   | 19.861            |                    |         |
| 14,800.00                                   | 8,835.00            | 9,224.00            | 7,416.85            | 126.86          | 39.30       | 2.89                  | 982.30                            | 5,994.52   | 1,362.88             | 1,293.30              | 70.03                   | 19.466            |                    |         |
| 14,900.00                                   | 8,835.00            | 9,228.00            | 7,417.06            | 128.84          | 39.37       | 3.07                  | 977.69                            | 5,994.63   | 1,345.89             | 1,276.31              | 70.53                   | 19.071            |                    |         |
| 14,914.32                                   | 8,835.00            | 14,914.32           | 7,415.53            | 129.12          | 133.37      | 1.44                  | 1,016.92                          | 5,993.75   | 1,364.10             | 1,257.65              | 106.45                  | 12.815 CC, ES     |                    |         |
| 15,000.00                                   | 8,835.00            | 15,000.00           | 7,415.55            | 130.82          | 134.79      | 1.48                  | 1,015.90                          | 5,993.77   | 1,366.79             | 1,258.60              | 108.19                  | 12.634 SF         |                    |         |
| 15,100.00                                   | 8,835.00            | 9,216.14            | 7,416.41            | 132.80          | 39.17       | 2.55                  | 990.46                            | 5,994.29   | 1,376.67             | 1,303.73              | 72.94                   | 18.875            |                    |         |
| 15,200.00                                   | 8,835.00            | 9,217.45            | 7,416.46            | 134.79          | 39.19       | 2.60                  | 989.15                            | 5,994.32   | 1,393.65             | 1,319.53              | 74.12                   | 18.802            |                    |         |
| 15,300.00                                   | 8,835.00            | 9,218.73            | 7,416.52            | 136.78          | 39.21       | 2.66                  | 987.87                            | 5,994.35   | 1,417.51             | 1,342.16              | 75.34                   | 18.814            |                    |         |
| 15,400.00                                   | 8,835.00            | 9,219.98            | 7,416.57            | 138.76          | 39.23       | 2.71                  | 986.62                            | 5,994.37   | 1,447.89             | 1,371.34              | 76.54                   | 18.916            |                    |         |
| 15,500.00                                   | 8,835.00            | 9,221.21            | 7,416.62            | 140.76          | 39.25       | 2.76                  | 985.40                            | 5,994.40   | 1,484.39             | 1,406.72              | 77.77                   | 19.111            |                    |         |
| 15,600.00                                   | 8,835.00            | 9,222.40            | 7,416.67            | 142.75          | 39.27       | 2.81                  | 984.21                            | 5,994.43   | 1,526.59             | 1,447.88              | 78.70                   | 19.397            |                    |         |
| 15,700.00                                   | 8,835.00            | 9,223.56            | 7,416.72            | 144.74          | 39.29       | 2.86                  | 983.04                            | 5,994.45   | 1,574.01             | 1,494.39              | 79.61                   | 19.771            |                    |         |
| 15,800.00                                   | 8,835.00            | 9,224.70            | 7,416.76            | 146.74          | 39.31       | 2.91                  | 981.91                            | 5,994.47   | 1,626.20             | 1,545.80              | 80.40                   | 20.226            |                    |         |
| 15,900.00                                   | 8,835.00            | 9,225.81            | 7,416.81            | 148.73          | 39.33       | 2.95                  | 980.80                            | 5,994.50   | 1,682.73             | 1,601.65              | 81.07                   | 20.755            |                    |         |
| 16,000.00                                   | 8,835.00            | 9,226.90            | 7,416.85            | 150.73          | 39.35       | 3.00                  | 979.71                            | 5,994.52   | 1,743.16             | 1,661.52              | 81.63                   | 21.354            |                    |         |
| 16,100.00                                   | 8,835.00            | 9,227.96            | 7,416.90            | 152.73          | 39.37       | 3.04                  | 978.65                            | 5,994.54   | 1,807.10             | 1,725.01              | 82.09                   | 22.013            |                    |         |
| 16,200.00                                   | 8,835.00            | 9,229.00            | 7,416.94            | 154.73          | 39.38       | 3.09                  | 977.61                            | 5,994.56   | 1,874.20             | 1,791.74              | 82.46                   | 22.728            |                    |         |
| 16,300.00                                   | 8,835.00            | 9,230.02            | 7,416.98            | 156.73          | 39.40       | 3.13                  | 976.59                            | 5,994.58   | 1,944.14             | 1,861.38              | 82.76                   | 23.491            |                    |         |
| 16,400.00                                   | 8,835.00            | 9,231.02            | 7,417.02            | 158.74          | 39.42       | 3.17                  | 975.60                            | 5,994.60   | 2,016.60             | 1,933.61              | 82.99                   | 24.299            |                    |         |
| 16,500.00                                   | 8,835.00            | 9,231.99            | 7,417.06            | 160.74          | 39.43       | 3.21                  | 974.62                            | 5,994.62   | 2,091.34             | 2,008.17              | 83.17                   | 25.145            |                    |         |
| 16,600.00                                   | 8,835.00            | 9,232.95            | 7,417.10            | 162.74          | 39.45       | 3.25                  | 973.67                            | 5,994.64   | 2,168.11             | 2,084.81              | 83.30                   | 26.027            |                    |         |
| 16,700.00                                   | 8,835.00            | 9,233.88            | 7,417.14            | 164.75          | 39.47       | 3.29                  | 972.74                            | 5,994.66   | 2,246.71             | 2,163.31              | 83.40                   | 26.938            |                    |         |
| 16,800.00                                   | 8,835.00            | 9,234.80            | 7,417.17            | 166.76          | 39.48       | 3.33                  | 971.82                            | 5,994.68   | 2,326.96             | 2,243.48              | 83.47                   | 27.878            |                    |         |
| 16,900.00                                   | 8,835.00            | 9,235.69            | 7,417.21            | 168.77          | 39.50       | 3.37                  | 970.93                            | 5,994.69   | 2,408.68             | 2,325.16              | 83.52                   | 28.841            |                    |         |
| 17,000.00                                   | 8,835.00            | 9,236.57            | 7,417.24            | 170.77          | 39.51       | 3.41                  | 970.05                            | 5,994.71   | 2,491.73             | 2,408.19              | 83.54                   | 29.826            |                    |         |
| 17,100.00                                   | 8,835.00            | 9,237.43            | 7,417.28            | 172.78          | 39.52       | 3.44                  | 969.19                            | 5,994.73   | 2,575.99             | 2,492.44              | 83.55                   | 30.830            |                    |         |
| 17,200.00                                   | 8,835.00            | 9,238.28            | 7,417.31            | 174.79          | 39.54       | 3.48                  | 968.34                            | 5,994.74   | 2,661.34             | 2,577.78              | 83.55                   | 31.851            |                    |         |
| 17,300.00                                   | 8,835.00            | 9,239.11            | 7,417.34            | 176.81          | 39.55       | 3.51                  | 967.52                            | 5,994.76   | 2,747.67             | 2,664.13              | 83.55                   | 32.888            |                    |         |
| 17,400.00                                   | 8,835.00            | 9,239.92            | 7,417.37            | 178.82          | 39.57       | 3.55                  | 966.71                            | 5,994.77   | 2,834.91             | 2,751.38              | 83.53                   | 33.938            |                    |         |
| 17,500.00                                   | 8,835.00            | 9,240.71            | 7,417.40            | 180.83          | 39.58       | 3.58                  | 965.91                            | 5,994.79   | 2,922.96             | 2,839.45              | 83.51                   | 35.000            |                    |         |
| 17,600.00                                   | 8,835.00            | 9,241.49            | 7,417.43            | 182.84          | 39.59       | 3.61                  | 965.13                            | 5,994.80   | 3,011.76             | 2,928.27              | 83.49                   | 36.072            |                    |         |
| 17,700.00                                   | 8,835.00            | 9,242.26            | 7,417.46            | 184.86          | 39.60       | 3.64                  | 964.36                            | 5,994.82   | 3,101.24             | 3,017.77              | 83.47                   | 37.154            |                    |         |
| 17,800.00                                   | 8,835.00            | 9,243.01            | 7,417.49            | 186.87          | 39.62       | 3.68                  | 963.61                            | 5,994.83   | 3,191.34             | 3,107.90              | 83.45                   | 38.244            |                    |         |
| 17,900.00                                   | 8,835.00            | 9,243.75            | 7,417.52            | 188.89          | 39.63       | 3.71                  | 962.88                            | 5,994.84   | 3,282.02             | 3,198.60              | 83.42                   | 39.342            |                    |         |
| 18,000.00                                   | 8,835.00            | 9,244.48            | 7,417.55            | 190.91          | 39.64       | 3.74                  | 962.15                            | 5,994.86   | 3,373.22             | 3,289.82              | 83.40                   | 40.446            |                    |         |
| 18,100.00                                   | 8,835.00            | 9,245.19            | 7,417.58            | 192.92          | 39.65       | 3.77                  | 961.44                            | 5,994.87   | 3,464.91             | 3,381.53              | 83.38                   | 41.557            |                    |         |
| 18,200.00                                   | 8,835.00            | 9,245.89            | 7,417.60            | 194.94          | 39.67       | 3.80                  | 960.74                            | 5,994.88   | 3,557.05             | 3,473.69              | 83.36                   | 42.672            |                    |         |
| 18,300.00                                   | 8,835.00            | 9,246.57            | 7,417.63            | 196.96          | 39.68       | 3.83                  | 960.06                            | 5,994.89   | 3,649.60             | 3,566.26              | 83.34                   | 43.791            |                    |         |
| 18,400.00                                   | 8,835.00            | 9,247.25            | 7,417.65            | 198.98          | 39.69       | 3.85                  | 959.38                            | 5,994.91   | 3,742.53             | 3,659.21              | 83.32                   | 44.915            |                    |         |
| 18,500.00                                   | 8,835.00            | 9,247.91            | 7,417.68            | 201.00          | 39.70       | 3.88                  | 958.72                            | 5,994.92   | 3,835.82             | 3,752.51              | 83.31                   | 46.042            |                    |         |
| 18,600.00                                   | 8,835.00            | 9,248.56            | 7,417.70            | 203.02          | 39.71       | 3.91                  | 958.07                            | 5,994.93   | 3,929.44             | 3,846.14              | 83.30                   | 47.171            |                    |         |
| 18,700.00                                   | 8,835.00            | 9,249.20            | 7,417.73            | 205.04          | 39.72       | 3.94                  | 957.43                            | 5,994.94   | 4,023.36             | 3,940.07              | 83.29                   | 48.304            |                    |         |
| 18,800.00                                   | 8,835.00            | 9,249.83            | 7,417.75            | 207.06          | 39.73       | 3.96                  | 956.80                            | 5,994.95   | 4,117.57             | 4,034.29              | 83.29                   | 49.438            |                    |         |
| 18,900.00                                   | 8,835.00            | 9,250.45            | 7,417.77            | 209.08          | 39.74       | 3.99                  | 956.18                            | 5,994.96   | 4,212.05             | 4,128.77              | 83.29                   | 50.574            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw 13 State 15H - Original Hole - Actuals |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 5.00 ft |
|-----------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|---------|
| Survey Program: 106-MWD+IGRF, 2746-MWD+IGRF                                                   |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 0.00 ft |
| Reference                                                                                     |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                           | Warning |
| Measured Depth<br>(ft)                                                                        | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |         |
| 19,000.00                                                                                     | 8,835.00               | 9,251.06               | 7,417.80               | 211.10            | 39.75          | 4.01                        | 955.58                                  | 5,994.97      | 4,306.78                   | 4,223.49                    | 83.29                         | 51.711                    |         |
| 19,100.00                                                                                     | 8,835.00               | 9,251.65               | 7,417.82               | 213.12            | 39.76          | 4.04                        | 954.98                                  | 5,994.98      | 4,401.74                   | 4,318.45                    | 83.29                         | 52.849                    |         |
| 19,200.00                                                                                     | 8,835.00               | 9,252.24               | 7,417.84               | 215.15            | 39.77          | 4.06                        | 954.39                                  | 5,994.99      | 4,496.92                   | 4,413.62                    | 83.29                         | 53.989                    |         |
| 19,308.27                                                                                     | 8,835.00               | 9,252.87               | 7,417.86               | 217.34            | 39.78          | 4.09                        | 953.77                                  | 5,995.00      | 4,600.20                   | 4,516.90                    | 83.30                         | 55.222                    |         |



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 18-GYRO-NS-CT |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                          | 0.00                | 0.00                | 0.00                | 0.50            | 5.02        | 61.82                 | 3,098.47                          | 5,783.09   | 6,561.16             |                       |                         |                   |                    |         |
| 100.00                        | 100.00              | 9.67                | 9.67                | 0.52            | 5.02        | 61.82                 | 3,098.48                          | 5,783.10   | 6,560.91             | 6,555.37              | 5.54                    | 1,183.697         |                    |         |
| 200.00                        | 200.00              | 83.56               | 83.56               | 0.70            | 5.03        | 61.82                 | 3,098.88                          | 5,783.50   | 6,561.60             | 6,555.87              | 5.73                    | 1,145.501         |                    |         |
| 300.00                        | 300.00              | 189.18              | 189.17              | 0.99            | 5.04        | 61.82                 | 3,099.08                          | 5,784.32   | 6,562.37             | 6,556.35              | 6.03                    | 1,088.339         |                    |         |
| 400.00                        | 400.00              | 288.98              | 288.98              | 1.31            | 5.08        | 61.82                 | 3,098.99                          | 5,785.15   | 6,563.07             | 6,556.67              | 6.39                    | 1,026.684         |                    |         |
| 500.00                        | 500.00              | 386.93              | 386.92              | 1.65            | 5.15        | 61.83                 | 3,099.00                          | 5,785.95   | 6,563.79             | 6,556.99              | 6.79                    | 966.316           |                    |         |
| 600.00                        | 600.00              | 491.69              | 491.68              | 1.99            | 5.24        | 61.83                 | 3,098.98                          | 5,786.79   | 6,564.49             | 6,557.26              | 7.23                    | 908.113           |                    |         |
| 700.00                        | 700.00              | 596.24              | 596.22              | 2.34            | 5.35        | 61.83                 | 3,098.78                          | 5,787.62   | 6,565.10             | 6,557.41              | 7.69                    | 853.455           |                    |         |
| 800.00                        | 800.00              | 740.90              | 740.88              | 2.69            | 5.55        | 61.83                 | 3,099.49                          | 5,788.04   | 6,565.69             | 6,557.45              | 8.24                    | 796.975           |                    |         |
| 900.00                        | 900.00              | 883.72              | 883.69              | 3.04            | 5.78        | 61.83                 | 3,099.34                          | 5,787.08   | 6,564.95             | 6,556.13              | 8.82                    | 744.428           |                    |         |
| 1,000.00                      | 1,000.00            | 953.30              | 953.27              | 3.40            | 5.90        | 61.83                 | 3,098.70                          | 5,787.16   | 6,564.56             | 6,555.26              | 9.30                    | 706.144           |                    |         |
| 1,018.08                      | 1,018.08            | 953.30              | 953.27              | 3.46            | 5.90        | 61.83                 | 3,098.70                          | 5,787.16   | 6,564.53             | 6,555.17              | 9.36                    | 701.299           |                    |         |
| 1,100.00                      | 1,100.00            | 1,029.12            | 1,029.09            | 3.75            | 6.04        | 61.84                 | 3,098.01                          | 5,787.59   | 6,564.59             | 6,554.80              | 9.79                    | 670.234           |                    |         |
| 1,200.00                      | 1,200.00            | 1,129.89            | 1,129.85            | 4.11            | 6.24        | 61.85                 | 3,097.46                          | 5,787.99   | 6,564.69             | 6,554.33              | 10.35                   | 634.124           |                    |         |
| 1,300.00                      | 1,300.00            | 1,225.37            | 1,225.33            | 4.46            | 6.45        | 61.85                 | 3,097.19                          | 5,788.25   | 6,564.80             | 6,553.88              | 10.91                   | 601.617           |                    |         |
| 1,400.00                      | 1,400.00            | 1,321.64            | 1,321.60            | 4.82            | 6.67        | 61.85                 | 3,097.00                          | 5,788.55   | 6,564.98             | 6,553.49              | 11.48                   | 571.652           |                    |         |
| 1,500.00                      | 1,500.00            | 1,420.59            | 1,420.55            | 5.18            | 6.90        | 61.86                 | 3,096.78                          | 5,788.91   | 6,565.19             | 6,553.12              | 12.07                   | 543.792           |                    |         |
| 1,600.00                      | 1,600.00            | 1,527.00            | 1,526.96            | 5.53            | 7.16        | 61.86                 | 3,096.33                          | 5,789.37   | 6,565.38             | 6,552.69              | 12.69                   | 517.379           |                    |         |
| 1,700.00                      | 1,700.00            | 1,645.52            | 1,645.48            | 5.89            | 7.46        | 61.87                 | 3,095.68                          | 5,789.69   | 6,565.35             | 6,552.01              | 13.35                   | 491.901           |                    |         |
| 1,800.00                      | 1,800.00            | 1,761.51            | 1,761.46            | 6.25            | 7.76        | 61.87                 | 3,095.09                          | 5,789.65   | 6,565.08             | 6,551.07              | 14.01                   | 468.690           |                    |         |
| 1,900.00                      | 1,900.00            | 1,861.65            | 1,861.60            | 6.61            | 8.03        | 61.87                 | 3,094.84                          | 5,789.28   | 6,564.64             | 6,550.01              | 14.63                   | 448.605           |                    |         |
| 2,000.00                      | 2,000.00            | 1,961.72            | 1,961.67            | 6.96            | 8.31        | 61.87                 | 3,094.89                          | 5,788.82   | 6,564.25             | 6,548.99              | 15.27                   | 430.001           |                    |         |
| 2,100.00                      | 2,099.99            | 2,066.48            | 2,066.43            | 7.32            | 8.60        | 74.66                 | 3,094.99                          | 5,788.24   | 6,563.59             | 6,547.67              | 15.92                   | 412.381           |                    |         |
| 2,200.00                      | 2,199.96            | 2,172.84            | 2,172.79            | 7.68            | 8.90        | 74.69                 | 3,095.11                          | 5,787.55   | 6,562.37             | 6,545.79              | 16.58                   | 395.883           |                    |         |
| 2,300.00                      | 2,299.86            | 2,273.33            | 2,273.27            | 8.04            | 9.19        | 74.74                 | 3,095.32                          | 5,786.77   | 6,560.64             | 6,543.41              | 17.22                   | 380.888           |                    |         |
| 2,400.00                      | 2,399.68            | 2,366.26            | 2,366.20            | 8.39            | 9.47        | 74.80                 | 3,095.58                          | 5,786.07   | 6,558.50             | 6,540.64              | 17.85                   | 367.337           |                    |         |
| 2,500.00                      | 2,499.37            | 2,455.94            | 2,455.87            | 8.75            | 9.73        | 74.88                 | 3,095.88                          | 5,785.51   | 6,556.04             | 6,537.57              | 18.48                   | 354.820           |                    |         |
| 2,600.00                      | 2,598.90            | 2,563.11            | 2,563.05            | 9.11            | 10.06       | 74.99                 | 3,096.11                          | 5,784.92   | 6,553.15             | 6,533.99              | 19.16                   | 342.103           |                    |         |
| 2,700.00                      | 2,698.26            | 2,664.76            | 2,664.70            | 9.46            | 10.37       | 75.12                 | 3,096.11                          | 5,784.39   | 6,549.75             | 6,529.93              | 19.82                   | 330.451           |                    |         |
| 2,800.00                      | 2,797.40            | 2,764.23            | 2,764.16            | 9.82            | 10.67       | 75.26                 | 3,096.22                          | 5,783.77   | 6,545.89             | 6,525.41              | 20.48                   | 319.582           |                    |         |
| 2,900.00                      | 2,896.30            | 2,874.75            | 2,874.68            | 10.18           | 11.01       | 75.44                 | 3,096.65                          | 5,782.94   | 6,541.63             | 6,520.44              | 21.18                   | 308.825           |                    |         |
| 3,000.00                      | 2,994.93            | 3,020.25            | 3,020.17            | 10.54           | 11.47       | 75.69                 | 3,096.73                          | 5,781.23   | 6,536.43             | 6,514.43              | 21.99                   | 297.191           |                    |         |
| 3,100.00                      | 3,093.26            | 3,099.97            | 3,099.88            | 10.90           | 11.72       | 75.86                 | 3,096.46                          | 5,780.29   | 6,530.66             | 6,508.05              | 22.61                   | 288.895           |                    |         |
| 3,195.07                      | 3,186.42            | 3,176.08            | 3,175.99            | 11.24           | 11.96       | 76.05                 | 3,096.11                          | 5,779.64   | 6,525.04             | 6,501.85              | 23.19                   | 281.366           |                    |         |
| 3,200.00                      | 3,191.25            | 3,180.01            | 3,179.92            | 11.26           | 11.97       | 76.06                 | 3,096.10                          | 5,779.62   | 6,524.75             | 6,501.53              | 23.22                   | 280.985           |                    |         |
| 3,300.00                      | 3,289.08            | 3,256.76            | 3,256.67            | 11.62           | 12.22       | 76.19                 | 3,095.94                          | 5,779.12   | 6,519.01             | 6,495.18              | 23.83                   | 273.575           |                    |         |
| 3,400.00                      | 3,386.91            | 3,319.33            | 3,319.23            | 11.98           | 12.42       | 76.30                 | 3,096.28                          | 5,778.74   | 6,513.70             | 6,489.31              | 24.39                   | 267.015           |                    |         |
| 3,500.00                      | 3,484.74            | 3,385.60            | 3,385.50            | 12.35           | 12.63       | 76.41                 | 3,096.85                          | 5,778.83   | 6,509.16             | 6,484.18              | 24.97                   | 260.641           |                    |         |
| 3,600.00                      | 3,582.58            | 3,471.50            | 3,471.39            | 12.72           | 12.90       | 76.56                 | 3,097.55                          | 5,779.30   | 6,505.04             | 6,479.43              | 25.62                   | 253.931           |                    |         |
| 3,700.00                      | 3,680.41            | 3,592.98            | 3,592.87            | 13.09           | 13.29       | 76.77                 | 3,098.07                          | 5,779.73   | 6,500.68             | 6,474.30              | 26.38                   | 246.440           |                    |         |
| 3,800.00                      | 3,778.24            | 3,693.37            | 3,693.26            | 13.46           | 13.62       | 76.95                 | 3,098.31                          | 5,779.98   | 6,496.21             | 6,469.14              | 27.07                   | 239.940           |                    |         |
| 3,900.00                      | 3,876.08            | 3,794.56            | 3,794.45            | 13.83           | 13.95       | 77.13                 | 3,098.50                          | 5,780.21   | 6,491.77             | 6,463.99              | 27.78                   | 233.723           |                    |         |
| 4,000.00                      | 3,973.91            | 3,900.92            | 3,900.81            | 14.21           | 14.30       | 77.32                 | 3,098.79                          | 5,780.32   | 6,487.30             | 6,458.80              | 28.50                   | 227.659           |                    |         |
| 4,100.00                      | 4,071.74            | 4,005.16            | 4,005.05            | 14.58           | 14.64       | 77.50                 | 3,099.10                          | 5,780.24   | 6,482.75             | 6,453.54              | 29.21                   | 221.925           |                    |         |
| 4,200.00                      | 4,169.57            | 4,107.60            | 4,107.49            | 14.96           | 14.97       | 77.68                 | 3,099.46                          | 5,780.07   | 6,478.21             | 6,448.29              | 29.92                   | 216.493           |                    |         |
| 4,300.00                      | 4,267.41            | 4,211.13            | 4,211.02            | 15.33           | 15.31       | 77.86                 | 3,099.84                          | 5,779.79   | 6,473.64             | 6,443.00              | 30.64                   | 211.276           |                    |         |
| 4,400.00                      | 4,365.24            | 4,316.71            | 4,316.61            | 15.71           | 15.66       | 78.05                 | 3,100.17                          | 5,779.41   | 6,469.04             | 6,437.67              | 31.37                   | 206.240           |                    |         |
| 4,500.00                      | 4,463.07            | 4,442.93            | 4,442.82            | 16.09           | 16.08       | 78.27                 | 3,100.34                          | 5,778.68   | 6,464.22             | 6,432.06              | 32.16                   | 200.995           |                    |         |
| 4,600.00                      | 4,560.90            | 4,555.46            | 4,555.34            | 16.47           | 16.45       | 78.47                 | 3,100.09                          | 5,777.76   | 6,459.10             | 6,426.19              | 32.91                   | 196.250           |                    |         |
| 4,700.00                      | 4,658.74            | 4,652.44            | 4,652.32            | 16.85           | 16.78       | 78.64                 | 3,100.04                          | 5,776.79   | 6,453.96             | 6,420.35              | 33.62                   | 191.996           |                    |         |
| 4,800.00                      | 4,756.57            | 4,742.67            | 4,742.54            | 17.23           | 17.08       | 78.80                 | 3,100.29                          | 5,775.83   | 6,448.95             | 6,414.65              | 34.30                   | 188.033           |                    |         |
| 4,900.00                      | 4,854.40            | 4,830.31            | 4,830.18            | 17.61           | 17.37       | 78.95                 | 3,100.65                          | 5,774.98   | 6,444.15             | 6,409.18              | 34.97                   | 184.269           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 18-GYRO-NS-CT |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,000.00                      | 4,952.23            | 4,906.56            | 4,906.43            | 17.99           | 17.63       | 79.09                 | 3,101.02                          | 5,774.38   | 6,439.60             | 6,403.99              | 35.61                   | 180.840           |                    |         |
| 5,100.00                      | 5,050.07            | 4,975.95            | 4,975.82            | 18.37           | 17.86       | 79.21                 | 3,101.44                          | 5,774.23   | 6,435.63             | 6,399.40              | 36.22                   | 177.657           |                    |         |
| 5,200.00                      | 5,147.90            | 5,058.30            | 5,058.16            | 18.75           | 18.14       | 79.36                 | 3,101.77                          | 5,774.44   | 6,432.07             | 6,395.18              | 36.88                   | 174.389           |                    |         |
| 5,300.00                      | 5,245.73            | 5,142.83            | 5,142.69            | 19.14           | 18.42       | 79.51                 | 3,101.78                          | 5,774.87   | 6,428.68             | 6,391.13              | 37.55                   | 171.203           |                    |         |
| 5,400.00                      | 5,343.56            | 5,230.53            | 5,230.39            | 19.52           | 18.71       | 79.67                 | 3,101.64                          | 5,775.59   | 6,425.56             | 6,387.33              | 38.23                   | 168.085           |                    |         |
| 5,500.00                      | 5,441.40            | 5,322.97            | 5,322.82            | 19.90           | 19.03       | 79.85                 | 3,101.46                          | 5,776.47   | 6,422.62             | 6,383.69              | 38.92                   | 165.011           |                    |         |
| 5,600.00                      | 5,539.23            | 5,449.90            | 5,449.76            | 20.29           | 19.45       | 80.08                 | 3,101.93                          | 5,777.19   | 6,419.63             | 6,379.89              | 39.73                   | 161.568           |                    |         |
| 5,700.00                      | 5,637.06            | 5,572.34            | 5,572.19            | 20.67           | 19.87       | 80.29                 | 3,102.58                          | 5,777.19   | 6,416.23             | 6,375.70              | 40.53                   | 158.309           |                    |         |
| 5,800.00                      | 5,734.90            | 5,677.03            | 5,676.88            | 21.05           | 20.22       | 80.48                 | 3,103.00                          | 5,776.87   | 6,412.57             | 6,371.30              | 41.27                   | 155.389           |                    |         |
| 5,900.00                      | 5,832.73            | 5,765.21            | 5,765.06            | 21.44           | 20.52       | 80.64                 | 3,103.34                          | 5,776.71   | 6,409.08             | 6,367.12              | 41.95                   | 152.773           |                    |         |
| 6,000.00                      | 5,930.56            | 5,855.74            | 5,855.59            | 21.83           | 20.83       | 80.80                 | 3,103.63                          | 5,776.69   | 6,405.77             | 6,363.13              | 42.64                   | 150.216           |                    |         |
| 6,100.00                      | 6,028.39            | 5,955.74            | 5,955.58            | 22.21           | 21.17       | 80.98                 | 3,103.72                          | 5,776.86   | 6,402.61             | 6,359.24              | 43.37                   | 147.634           |                    |         |
| 6,200.00                      | 6,126.23            | 6,063.18            | 6,063.03            | 22.60           | 21.53       | 81.18                 | 3,103.50                          | 5,776.98   | 6,399.36             | 6,355.24              | 44.12                   | 145.051           |                    |         |
| 6,300.00                      | 6,224.06            | 6,176.38            | 6,176.23            | 22.98           | 21.91       | 81.40                 | 3,102.53                          | 5,777.22   | 6,396.04             | 6,351.15              | 44.89                   | 142.490           |                    |         |
| 6,400.00                      | 6,321.89            | 6,264.49            | 6,264.32            | 23.37           | 22.21       | 81.57                 | 3,101.38                          | 5,777.46   | 6,392.68             | 6,347.11              | 45.57                   | 140.268           |                    |         |
| 6,500.00                      | 6,419.72            | 6,349.44            | 6,349.26            | 23.76           | 22.50       | 81.74                 | 3,100.36                          | 5,777.85   | 6,389.60             | 6,343.35              | 46.25                   | 138.149           |                    |         |
| 6,600.00                      | 6,517.56            | 6,423.26            | 6,423.08            | 24.14           | 22.75       | 81.88                 | 3,099.55                          | 5,778.35   | 6,386.84             | 6,339.95              | 46.89                   | 136.206           |                    |         |
| 6,700.00                      | 6,615.39            | 6,489.76            | 6,489.58            | 24.53           | 22.98       | 82.01                 | 3,098.85                          | 5,779.11   | 6,384.59             | 6,337.09              | 47.51                   | 134.398           |                    |         |
| 6,800.00                      | 6,713.22            | 6,553.37            | 6,553.17            | 24.92           | 23.20       | 82.14                 | 3,098.30                          | 5,780.15   | 6,382.93             | 6,334.82              | 48.11                   | 132.677           |                    |         |
| 6,900.00                      | 6,811.05            | 6,656.30            | 6,656.08            | 25.30           | 23.55       | 82.34                 | 3,097.52                          | 5,782.11   | 6,381.61             | 6,332.77              | 48.85                   | 130.642           |                    |         |
| 7,000.00                      | 6,908.89            | 6,767.84            | 6,767.60            | 25.69           | 23.93       | 82.56                 | 3,096.45                          | 5,784.01   | 6,380.13             | 6,330.51              | 49.62                   | 128.587           |                    |         |
| 7,100.00                      | 7,006.72            | 6,849.37            | 6,849.11            | 26.08           | 24.21       | 82.72                 | 3,095.98                          | 5,785.34   | 6,378.78             | 6,328.49              | 50.28                   | 126.857           |                    |         |
| 7,200.00                      | 7,104.55            | 6,952.96            | 6,952.69            | 26.47           | 24.57       | 82.91                 | 3,096.11                          | 5,786.85   | 6,377.57             | 6,326.55              | 51.03                   | 124.989           |                    |         |
| 7,216.87                      | 7,121.05            | 6,958.73            | 6,958.46            | 26.53           | 24.59       | 82.92                 | 3,096.13                          | 5,786.94   | 6,377.39             | 6,326.28              | 51.11                   | 124.778           |                    |         |
| 7,300.00                      | 7,202.57            | 7,011.30            | 7,011.02            | 26.85           | 24.77       | 83.01                 | 3,096.36                          | 5,787.85   | 6,376.84             | 6,325.24              | 51.61                   | 123.562           |                    |         |
| 7,333.35                      | 7,235.37            | 7,034.05            | 7,033.77            | 26.98           | 24.84       | 83.04                 | 3,096.47                          | 5,788.31   | 6,376.80             | 6,324.99              | 51.81                   | 123.075           |                    |         |
| 7,400.00                      | 7,301.06            | 7,075.50            | 7,075.20            | 27.23           | 24.99       | 83.11                 | 3,096.66                          | 5,789.28   | 6,377.02             | 6,324.81              | 52.21                   | 122.153           |                    |         |
| 7,500.00                      | 7,399.97            | 7,141.36            | 7,141.04            | 27.61           | 25.21       | 83.22                 | 3,096.93                          | 5,791.13   | 6,378.07             | 6,325.27              | 52.80                   | 120.794           |                    |         |
| 7,600.00                      | 7,499.23            | 7,211.68            | 7,211.32            | 27.98           | 25.46       | 83.33                 | 3,096.92                          | 5,793.57   | 6,379.93             | 6,326.53              | 53.41                   | 119.461           |                    |         |
| 7,700.00                      | 7,598.77            | 7,295.94            | 7,295.50            | 28.34           | 25.75       | 83.45                 | 3,096.24                          | 5,797.05   | 6,382.48             | 6,328.43              | 54.05                   | 118.075           |                    |         |
| 7,800.00                      | 7,698.53            | 7,383.03            | 7,382.49            | 28.70           | 26.05       | 83.57                 | 3,094.94                          | 5,801.04   | 6,385.55             | 6,330.84              | 54.71                   | 116.721           |                    |         |
| 7,900.00                      | 7,798.44            | 7,467.36            | 7,466.72            | 29.05           | 26.35       | 83.68                 | 3,093.83                          | 5,805.03   | 6,389.12             | 6,333.78              | 55.34                   | 115.444           |                    |         |
| 8,000.00                      | 7,898.42            | 7,551.20            | 7,550.56            | 29.39           | 26.60       | 83.80                 | 3,091.75                          | 5,812.94   | 6,392.38             | 6,334.84              | 57.54                   | 111.095           |                    |         |
| 8,013.58                      | 7,912.00            | 7,713.98            | 7,713.14            | 29.43           | 27.21       | 71.03                 | 3,091.28                          | 5,814.29   | 6,392.69             | 6,336.09              | 56.60                   | 112.940           |                    |         |
| 8,100.00                      | 7,998.42            | 7,803.51            | 7,802.64            | 29.73           | 27.52       | 71.05                 | 3,090.44                          | 5,816.54   | 6,394.48             | 6,337.28              | 57.20                   | 111.783           |                    |         |
| 8,200.00                      | 8,098.42            | 7,876.00            | 7,875.11            | 30.07           | 27.77       | 71.06                 | 3,089.81                          | 5,818.32   | 6,396.58             | 6,338.79              | 57.79                   | 110.684           |                    |         |
| 8,300.00                      | 8,198.42            | 7,876.00            | 7,875.11            | 30.41           | 27.77       | 71.06                 | 3,089.81                          | 5,818.32   | 6,399.84             | 6,341.73              | 58.12                   | 110.123           |                    |         |
| 8,363.62                      | 8,262.04            | 7,876.00            | 7,875.11            | 30.62           | 27.77       | 71.06                 | 3,089.81                          | 5,818.32   | 6,402.73             | 6,344.41              | 58.32                   | 109.795           |                    |         |
| 8,400.00                      | 8,298.40            | 7,876.00            | 7,875.11            | 30.75           | 27.77       | -18.57                | 3,089.81                          | 5,818.32   | 6,403.57             | 6,345.14              | 58.43                   | 109.603           |                    |         |
| 8,450.00                      | 8,348.10            | 7,876.00            | 7,875.11            | 30.91           | 27.77       | -18.64                | 3,089.81                          | 5,818.32   | 6,401.49             | 6,342.92              | 58.57                   | 109.298           |                    |         |
| 8,500.00                      | 8,397.14            | 7,876.00            | 7,875.11            | 31.07           | 27.77       | -18.83                | 3,089.81                          | 5,818.32   | 6,395.67             | 6,336.97              | 58.71                   | 108.939           |                    |         |
| 8,550.00                      | 8,445.15            | 7,876.00            | 7,875.11            | 31.23           | 27.77       | -19.14                | 3,089.81                          | 5,818.32   | 6,386.16             | 6,327.32              | 58.84                   | 108.530           |                    |         |
| 8,600.00                      | 8,491.77            | 7,876.00            | 7,875.11            | 31.38           | 27.77       | -19.60                | 3,089.81                          | 5,818.32   | 6,373.01             | 6,314.04              | 58.97                   | 108.075           |                    |         |
| 8,650.00                      | 8,536.65            | 7,876.00            | 7,875.11            | 31.52           | 27.77       | -20.20                | 3,089.81                          | 5,818.32   | 6,356.30             | 6,297.21              | 59.09                   | 107.575           |                    |         |
| 8,700.00                      | 8,579.43            | 7,876.00            | 7,875.11            | 31.66           | 27.77       | -20.98                | 3,089.81                          | 5,818.32   | 6,336.12             | 6,276.92              | 59.20                   | 107.036           |                    |         |
| 8,750.00                      | 8,619.80            | 7,876.00            | 7,875.11            | 31.80           | 27.77       | -21.95                | 3,089.81                          | 5,818.32   | 6,312.60             | 6,253.30              | 59.30                   | 106.458           |                    |         |
| 8,800.00                      | 8,657.44            | 7,876.00            | 7,875.11            | 31.93           | 27.77       | -23.17                | 3,089.81                          | 5,818.32   | 6,285.88             | 6,226.49              | 59.39                   | 105.846           |                    |         |
| 8,850.00                      | 8,692.08            | 7,876.00            | 7,875.11            | 32.06           | 27.77       | -24.67                | 3,089.81                          | 5,818.32   | 6,256.12             | 6,196.65              | 59.47                   | 105.201           |                    |         |
| 8,900.00                      | 8,723.44            | 7,876.00            | 7,875.11            | 32.19           | 27.77       | -26.53                | 3,089.81                          | 5,818.32   | 6,223.51             | 6,163.97              | 59.54                   | 104.526           |                    |         |
| 8,950.00                      | 8,751.29            | 7,876.00            | 7,875.11            | 32.34           | 27.77       | -28.84                | 3,089.81                          | 5,818.32   | 6,188.25             | 6,128.65              | 59.60                   | 103.823           |                    |         |
| 9,000.00                      | 8,775.42            | 7,876.00            | 7,875.11            | 32.50           | 27.77       | -31.73                | 3,089.81                          | 5,818.32   | 6,150.58             | 6,090.92              | 59.66                   | 103.095           |                    |         |
| 9,050.00                      | 8,795.64            | 7,876.00            | 7,875.11            | 32.67           | 27.77       | -35.38                | 3,089.81                          | 5,818.32   | 6,110.72             | 6,051.01              | 59.71                   | 102.343           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 18-GYRO-NS-CT |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,100.00                      | 8,811.80            | 7,876.00            | 7,875.11            | 32.87           | 27.77       | -40.03                | 3,089.81                          | 5,818.32   | 6,068.95             | 6,009.20              | 59.75                   | 101.572           |                    |         |
| 9,150.00                      | 8,823.77            | 7,876.00            | 7,875.11            | 33.10           | 27.77       | -46.00                | 3,089.81                          | 5,818.32   | 6,025.55             | 5,965.77              | 59.79                   | 100.782           |                    |         |
| 9,200.00                      | 8,831.47            | 7,876.00            | 7,875.11            | 33.34           | 27.77       | -53.65                | 3,089.81                          | 5,818.32   | 5,980.82             | 5,921.00              | 59.82                   | 99.977            |                    |         |
| 9,250.00                      | 8,834.84            | 7,876.00            | 7,875.11            | 33.60           | 27.77       | -63.31                | 3,089.81                          | 5,818.32   | 5,935.07             | 5,875.21              | 59.85                   | 99.159            |                    |         |
| 9,263.62                      | 8,835.00            | 7,876.00            | 7,875.11            | 33.67           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,922.47             | 5,862.61              | 59.86                   | 98.933            |                    |         |
| 9,300.00                      | 8,835.00            | 7,876.00            | 7,875.11            | 33.88           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,888.78             | 5,828.89              | 59.89                   | 98.334            |                    |         |
| 9,400.00                      | 8,835.00            | 7,876.00            | 7,875.11            | 34.53           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,796.33             | 5,736.37              | 59.96                   | 96.668            |                    |         |
| 9,500.00                      | 8,835.00            | 7,876.00            | 7,875.11            | 35.30           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,704.14             | 5,644.08              | 60.06                   | 94.974            |                    |         |
| 9,600.00                      | 8,835.00            | 7,876.00            | 7,875.11            | 36.17           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,612.22             | 5,552.03              | 60.18                   | 93.252            |                    |         |
| 9,700.00                      | 8,835.00            | 7,876.00            | 7,875.11            | 37.13           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,520.57             | 5,460.24              | 60.33                   | 91.500            |                    |         |
| 9,800.00                      | 8,835.00            | 7,876.00            | 7,875.11            | 38.18           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,429.22             | 5,368.71              | 60.51                   | 89.719            |                    |         |
| 9,900.00                      | 8,835.00            | 7,876.00            | 7,875.11            | 39.31           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,338.19             | 5,277.46              | 60.72                   | 87.908            |                    |         |
| 10,000.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 40.51           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,247.47             | 5,186.50              | 60.97                   | 86.068            |                    |         |
| 10,100.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 41.78           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,157.10             | 5,095.86              | 61.25                   | 84.199            |                    |         |
| 10,200.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 43.10           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,067.10             | 5,005.53              | 61.57                   | 82.302            |                    |         |
| 10,300.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 44.49           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,977.47             | 4,915.55              | 61.93                   | 80.378            |                    |         |
| 10,400.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 45.92           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,888.25             | 4,825.92              | 62.33                   | 78.427            |                    |         |
| 10,500.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 47.39           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,799.45             | 4,736.67              | 62.78                   | 76.452            |                    |         |
| 10,600.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 48.91           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,711.10             | 4,647.83              | 63.27                   | 74.455            |                    |         |
| 10,700.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 50.47           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,623.23             | 4,559.40              | 63.82                   | 72.437            |                    |         |
| 10,800.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 52.06           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,535.86             | 4,471.43              | 64.43                   | 70.402            |                    |         |
| 10,900.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 53.68           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,449.02             | 4,383.93              | 65.09                   | 68.352            |                    |         |
| 11,000.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 55.32           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,362.74             | 4,296.93              | 65.81                   | 66.291            |                    |         |
| 11,100.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 57.00           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,277.06             | 4,210.46              | 66.60                   | 64.221            |                    |         |
| 11,200.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 58.70           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,192.02             | 4,124.56              | 67.45                   | 62.149            |                    |         |
| 11,300.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 60.41           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,107.64             | 4,039.27              | 68.37                   | 60.076            |                    |         |
| 11,400.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 62.15           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,023.99             | 3,954.62              | 69.37                   | 58.007            |                    |         |
| 11,500.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 63.91           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,941.10             | 3,870.66              | 70.44                   | 55.948            |                    |         |
| 11,600.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 65.69           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,859.02             | 3,787.42              | 71.59                   | 53.902            |                    |         |
| 11,700.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 67.47           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,777.80             | 3,704.97              | 72.83                   | 51.874            |                    |         |
| 11,800.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 69.28           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,697.50             | 3,623.35              | 74.15                   | 49.868            |                    |         |
| 11,900.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 71.09           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,618.18             | 3,542.63              | 75.55                   | 47.890            |                    |         |
| 12,000.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 72.92           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,539.92             | 3,462.87              | 77.05                   | 45.944            |                    |         |
| 12,100.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 74.76           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,462.77             | 3,384.13              | 78.64                   | 44.034            |                    |         |
| 12,200.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 76.61           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,386.81             | 3,306.49              | 80.32                   | 42.164            |                    |         |
| 12,300.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 78.47           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,312.14             | 3,230.03              | 82.11                   | 40.339            |                    |         |
| 12,400.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 80.34           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,238.83             | 3,154.84              | 83.99                   | 38.561            |                    |         |
| 12,500.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 82.22           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,166.98             | 3,081.00              | 85.98                   | 36.836            |                    |         |
| 12,600.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 84.11           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,096.69             | 3,008.63              | 88.06                   | 35.165            |                    |         |
| 12,700.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 86.00           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,028.08             | 2,937.83              | 90.25                   | 33.553            |                    |         |
| 12,800.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 87.90           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,961.25             | 2,868.72              | 92.54                   | 32.001            |                    |         |
| 12,900.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 89.81           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,896.34             | 2,801.41              | 94.92                   | 30.513            |                    |         |
| 13,000.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 91.72           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,833.46             | 2,736.06              | 97.41                   | 29.089            |                    |         |
| 13,100.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 93.64           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,772.77             | 2,672.79              | 99.98                   | 27.733            |                    |         |
| 13,200.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 95.56           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,714.41             | 2,611.76              | 102.64                  | 26.445            |                    |         |
| 13,300.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 97.49           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,658.53             | 2,553.14              | 105.39                  | 25.226            |                    |         |
| 13,400.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 99.42           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,605.29             | 2,497.09              | 108.20                  | 24.078            |                    |         |
| 13,500.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 101.36          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,554.85             | 2,443.78              | 111.08                  | 23.001            |                    |         |
| 13,600.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 103.30          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,507.39             | 2,393.40              | 114.00                  | 21.996            |                    |         |
| 13,700.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 105.25          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,463.08             | 2,346.14              | 116.95                  | 21.061            |                    |         |
| 13,800.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 107.20          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,422.09             | 2,302.18              | 119.91                  | 20.199            |                    |         |
| 13,900.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 109.15          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,384.59             | 2,261.72              | 122.87                  | 19.407            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 4H - Pilot - Pilot |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | <b>Offset Site Error:</b> | 5.00 ft |
|----------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|---------------------------|---------|
| <b>Survey Program:</b> 18-GYRO-NS-CT                                                   |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                              |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning                   |         |
| Measured Depth (ft)                                                                    | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                           |         |
| 14,000.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 111.10          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,350.75             | 2,224.95              | 125.81                  | 18.685            |                           |         |
| 14,100.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 113.06          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,320.73             | 2,192.04              | 128.69                  | 18.034            |                           |         |
| 14,200.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 115.03          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,294.68             | 2,163.18              | 131.50                  | 17.450            |                           |         |
| 14,300.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 116.99          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,272.73             | 2,138.52              | 134.21                  | 16.934            |                           |         |
| 14,400.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 118.96          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,255.00             | 2,118.21              | 136.80                  | 16.484            |                           |         |
| 14,500.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 120.93          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,241.60             | 2,102.37              | 139.24                  | 16.099            |                           |         |
| 14,600.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 122.90          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,232.61             | 2,091.10              | 141.51                  | 15.777            |                           |         |
| 14,700.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 124.88          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,228.07             | 2,084.47              | 143.60                  | 15.516            |                           |         |
| 14,751.24                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 125.89          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,227.48             | 2,082.89              | 144.59                  | 15.405 CC         |                           |         |
| 14,800.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 126.86          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,228.01             | 2,082.53              | 145.48                  | 15.315 ES         |                           |         |
| 14,900.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 128.84          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,232.44             | 2,085.29              | 147.15                  | 15.171            |                           |         |
| 15,000.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 130.82          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,241.33             | 2,092.73              | 148.60                  | 15.083            |                           |         |
| 15,100.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 132.80          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,254.62             | 2,104.80              | 149.82                  | 15.049 SF         |                           |         |
| 15,200.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 134.79          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,272.23             | 2,121.43              | 150.81                  | 15.067            |                           |         |
| 15,300.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 136.78          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,294.08             | 2,142.50              | 151.58                  | 15.135            |                           |         |
| 15,400.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 138.76          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,320.03             | 2,167.90              | 152.13                  | 15.250            |                           |         |
| 15,500.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 140.76          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,349.96             | 2,197.48              | 152.48                  | 15.411            |                           |         |
| 15,600.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 142.75          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,383.71             | 2,231.07              | 152.64                  | 15.617            |                           |         |
| 15,700.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 144.74          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,421.12             | 2,268.50              | 152.62                  | 15.864            |                           |         |
| 15,800.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 146.74          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,462.02             | 2,309.58              | 152.44                  | 16.151            |                           |         |
| 15,900.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 148.73          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,506.25             | 2,354.14              | 152.11                  | 16.476            |                           |         |
| 16,000.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 150.73          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,553.64             | 2,401.98              | 151.66                  | 16.838            |                           |         |
| 16,100.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 152.73          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,604.00             | 2,452.90              | 151.10                  | 17.234            |                           |         |
| 16,200.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 154.73          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,657.17             | 2,506.74              | 150.43                  | 17.663            |                           |         |
| 16,300.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 156.73          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,712.99             | 2,563.30              | 149.69                  | 18.124            |                           |         |
| 16,400.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 158.74          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,771.29             | 2,622.41              | 148.88                  | 18.614            |                           |         |
| 16,500.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 160.74          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,831.93             | 2,683.92              | 148.01                  | 19.133            |                           |         |
| 16,600.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 162.74          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,894.75             | 2,747.65              | 147.10                  | 19.679            |                           |         |
| 16,700.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 164.75          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,959.61             | 2,813.46              | 146.16                  | 20.250            |                           |         |
| 16,800.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 166.76          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,026.40             | 2,881.21              | 145.18                  | 20.845            |                           |         |
| 16,900.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 168.77          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,094.97             | 2,950.77              | 144.20                  | 21.464            |                           |         |
| 17,000.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 170.77          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,165.21             | 3,022.02              | 143.20                  | 22.104            |                           |         |
| 17,100.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 172.78          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,237.02             | 3,094.83              | 142.19                  | 22.765            |                           |         |
| 17,200.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 174.79          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,310.30             | 3,169.11              | 141.19                  | 23.446            |                           |         |
| 17,300.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 176.81          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,384.94             | 3,244.75              | 140.19                  | 24.145            |                           |         |
| 17,400.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 178.82          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,460.86             | 3,321.66              | 139.20                  | 24.862            |                           |         |
| 17,500.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 180.83          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,537.98             | 3,399.76              | 138.22                  | 25.597            |                           |         |
| 17,600.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 182.84          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,616.22             | 3,478.97              | 137.26                  | 26.347            |                           |         |
| 17,700.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 184.86          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,695.52             | 3,559.21              | 136.31                  | 27.112            |                           |         |
| 17,800.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 186.87          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,775.79             | 3,640.42              | 135.37                  | 27.892            |                           |         |
| 17,900.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 188.89          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,856.99             | 3,722.53              | 134.46                  | 28.685            |                           |         |
| 18,000.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 190.91          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,939.05             | 3,805.48              | 133.57                  | 29.492            |                           |         |
| 18,100.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 192.92          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,021.92             | 3,889.23              | 132.69                  | 30.310            |                           |         |
| 18,200.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 194.94          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,105.56             | 3,973.72              | 131.84                  | 31.141            |                           |         |
| 18,300.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 196.96          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,189.91             | 4,058.90              | 131.01                  | 31.983            |                           |         |
| 18,400.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 198.98          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,274.94             | 4,144.74              | 130.20                  | 32.835            |                           |         |
| 18,500.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 201.00          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,360.60             | 4,231.20              | 129.41                  | 33.697            |                           |         |
| 18,600.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 203.02          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,446.86             | 4,318.23              | 128.64                  | 34.569            |                           |         |
| 18,700.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 205.04          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,533.69             | 4,405.80              | 127.89                  | 35.450            |                           |         |
| 18,800.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 207.06          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,621.05             | 4,493.89              | 127.16                  | 36.340            |                           |         |
| 18,900.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 209.08          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,708.91             | 4,582.46              | 126.46                  | 37.238            |                           |         |
| 19,000.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 211.10          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,797.25             | 4,671.48              | 125.77                  | 38.143            |                           |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b>   |                        | Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 4H - Pilot - Pilot |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 5.00 ft |
|------------------------|------------------------|-------------------------------------------------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|---------|
| <b>Survey Program:</b> |                        | 18-GYRO-NS-CT                                                     |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 0.50 ft |
| Reference              |                        | Offset                                                            |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                           | Warning |
| Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Measured Depth<br>(ft)                                            | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |         |
| 19,100.00              | 8,835.00               | 7,876.00                                                          | 7,875.11               | 213.12            | 27.77          | -66.31                      | 3,089.81                                | 5,818.32      | 4,886.04                   | 4,760.93                    | 125.10                        | 39.056                    |         |
| 19,200.00              | 8,835.00               | 7,876.00                                                          | 7,875.11               | 215.15            | 27.77          | -66.31                      | 3,089.81                                | 5,818.32      | 4,975.25                   | 4,850.79                    | 124.46                        | 39.976                    |         |
| 19,308.27              | 8,835.00               | 7,876.00                                                          | 7,875.11               | 217.34            | 27.77          | -66.31                      | 3,089.81                                | 5,818.32      | 5,072.29                   | 4,948.52                    | 123.78                        | 40.980                    |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 18-GYRO-NS-CT, 4369-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                                         | 0.00                | 0.00                | 0.00                | 0.50            | 5.02        | 61.82                 | 3,098.47                          | 5,783.09   | 6,561.16             |                       |                         |                   |                    |         |
| 100.00                                       | 100.00              | 9.67                | 9.67                | 0.52            | 5.02        | 61.82                 | 3,098.48                          | 5,783.10   | 6,560.91             | 6,555.37              | 5.54                    | 1,183.697         |                    |         |
| 200.00                                       | 200.00              | 83.56               | 83.56               | 0.70            | 5.03        | 61.82                 | 3,098.88                          | 5,783.50   | 6,561.60             | 6,555.87              | 5.73                    | 1,145.501         |                    |         |
| 300.00                                       | 300.00              | 189.18              | 189.17              | 0.99            | 5.04        | 61.82                 | 3,099.08                          | 5,784.32   | 6,562.37             | 6,556.35              | 6.03                    | 1,088.339         |                    |         |
| 400.00                                       | 400.00              | 288.98              | 288.98              | 1.31            | 5.08        | 61.82                 | 3,098.99                          | 5,785.15   | 6,563.07             | 6,556.67              | 6.39                    | 1,026.684         |                    |         |
| 500.00                                       | 500.00              | 386.93              | 386.92              | 1.65            | 5.15        | 61.83                 | 3,099.00                          | 5,785.95   | 6,563.79             | 6,556.99              | 6.79                    | 966.316           |                    |         |
| 600.00                                       | 600.00              | 491.69              | 491.68              | 1.99            | 5.24        | 61.83                 | 3,098.98                          | 5,786.79   | 6,564.49             | 6,557.26              | 7.23                    | 908.113           |                    |         |
| 700.00                                       | 700.00              | 596.24              | 596.22              | 2.34            | 5.35        | 61.83                 | 3,098.78                          | 5,787.62   | 6,565.10             | 6,557.41              | 7.69                    | 853.455           |                    |         |
| 800.00                                       | 800.00              | 740.90              | 740.88              | 2.69            | 5.55        | 61.83                 | 3,099.49                          | 5,788.04   | 6,565.69             | 6,557.45              | 8.24                    | 796.975           |                    |         |
| 900.00                                       | 900.00              | 883.72              | 883.69              | 3.04            | 5.78        | 61.83                 | 3,099.34                          | 5,787.08   | 6,564.95             | 6,556.13              | 8.82                    | 744.428           |                    |         |
| 1,000.00                                     | 1,000.00            | 953.30              | 953.27              | 3.40            | 5.90        | 61.83                 | 3,098.70                          | 5,787.16   | 6,564.56             | 6,555.26              | 9.30                    | 706.144           |                    |         |
| 1,018.08                                     | 1,018.08            | 953.30              | 953.27              | 3.46            | 5.90        | 61.83                 | 3,098.70                          | 5,787.16   | 6,564.53             | 6,555.17              | 9.36                    | 701.299           |                    |         |
| 1,100.00                                     | 1,100.00            | 1,029.12            | 1,029.09            | 3.75            | 6.04        | 61.84                 | 3,098.01                          | 5,787.59   | 6,564.59             | 6,554.80              | 9.79                    | 670.234           |                    |         |
| 1,200.00                                     | 1,200.00            | 1,129.89            | 1,129.85            | 4.11            | 6.24        | 61.85                 | 3,097.46                          | 5,787.99   | 6,564.69             | 6,554.33              | 10.35                   | 634.124           |                    |         |
| 1,300.00                                     | 1,300.00            | 1,225.37            | 1,225.33            | 4.46            | 6.45        | 61.85                 | 3,097.19                          | 5,788.25   | 6,564.80             | 6,553.88              | 10.91                   | 601.617           |                    |         |
| 1,400.00                                     | 1,400.00            | 1,321.64            | 1,321.60            | 4.82            | 6.67        | 61.85                 | 3,097.00                          | 5,788.55   | 6,564.98             | 6,553.49              | 11.48                   | 571.652           |                    |         |
| 1,500.00                                     | 1,500.00            | 1,420.59            | 1,420.55            | 5.18            | 6.90        | 61.86                 | 3,096.78                          | 5,788.91   | 6,565.19             | 6,553.12              | 12.07                   | 543.792           |                    |         |
| 1,600.00                                     | 1,600.00            | 1,527.00            | 1,526.96            | 5.53            | 7.16        | 61.86                 | 3,096.33                          | 5,789.37   | 6,565.38             | 6,552.69              | 12.69                   | 517.379           |                    |         |
| 1,700.00                                     | 1,700.00            | 1,645.52            | 1,645.48            | 5.89            | 7.46        | 61.87                 | 3,095.68                          | 5,789.69   | 6,565.35             | 6,552.01              | 13.35                   | 491.901           |                    |         |
| 1,800.00                                     | 1,800.00            | 1,761.51            | 1,761.46            | 6.25            | 7.76        | 61.87                 | 3,095.09                          | 5,789.65   | 6,565.08             | 6,551.07              | 14.01                   | 468.690           |                    |         |
| 1,900.00                                     | 1,900.00            | 1,861.65            | 1,861.60            | 6.61            | 8.03        | 61.87                 | 3,094.84                          | 5,789.28   | 6,564.64             | 6,550.01              | 14.63                   | 448.605           |                    |         |
| 2,000.00                                     | 2,000.00            | 1,961.72            | 1,961.67            | 6.96            | 8.31        | 61.87                 | 3,094.89                          | 5,788.82   | 6,564.25             | 6,548.99              | 15.27                   | 430.001           |                    |         |
| 2,100.00                                     | 2,099.99            | 2,066.48            | 2,066.43            | 7.32            | 8.60        | 74.66                 | 3,094.99                          | 5,788.24   | 6,563.59             | 6,547.67              | 15.92                   | 412.381           |                    |         |
| 2,200.00                                     | 2,199.96            | 2,172.84            | 2,172.79            | 7.68            | 8.90        | 74.69                 | 3,095.11                          | 5,787.55   | 6,562.37             | 6,545.79              | 16.58                   | 395.883           |                    |         |
| 2,300.00                                     | 2,299.86            | 2,273.33            | 2,273.27            | 8.04            | 9.19        | 74.74                 | 3,095.32                          | 5,786.77   | 6,560.64             | 6,543.41              | 17.22                   | 380.888           |                    |         |
| 2,400.00                                     | 2,399.68            | 2,366.26            | 2,366.20            | 8.39            | 9.47        | 74.80                 | 3,095.58                          | 5,786.07   | 6,558.50             | 6,540.64              | 17.85                   | 367.337           |                    |         |
| 2,500.00                                     | 2,499.37            | 2,455.94            | 2,455.87            | 8.75            | 9.73        | 74.88                 | 3,095.88                          | 5,785.51   | 6,556.04             | 6,537.57              | 18.48                   | 354.820           |                    |         |
| 2,600.00                                     | 2,598.90            | 2,563.11            | 2,563.05            | 9.11            | 10.06       | 74.99                 | 3,096.11                          | 5,784.92   | 6,553.15             | 6,533.99              | 19.16                   | 342.103           |                    |         |
| 2,700.00                                     | 2,698.26            | 2,664.76            | 2,664.70            | 9.46            | 10.37       | 75.12                 | 3,096.11                          | 5,784.39   | 6,549.75             | 6,529.93              | 19.82                   | 330.451           |                    |         |
| 2,800.00                                     | 2,797.40            | 2,764.23            | 2,764.16            | 9.82            | 10.67       | 75.26                 | 3,096.22                          | 5,783.77   | 6,545.89             | 6,525.41              | 20.48                   | 319.582           |                    |         |
| 2,900.00                                     | 2,896.30            | 2,900.00            | 4,980.63            | 10.18           | 18.06       | 103.76                | 275.86                            | 6,143.58   | 6,526.65             | 6,499.41              | 27.24                   | 239.614           |                    |         |
| 3,000.00                                     | 2,994.93            | 3,000.00            | 4,980.42            | 10.54           | 16.62       | 103.92                | 290.68                            | 6,143.16   | 6,497.80             | 6,471.52              | 26.28                   | 247.241           |                    |         |
| 3,100.00                                     | 3,093.26            | 3,100.00            | 4,978.33            | 10.90           | 15.61       | 102.76                | 449.32                            | 6,136.74   | 6,470.55             | 6,444.88              | 25.67                   | 252.071           |                    |         |
| 3,195.07                                     | 3,186.42            | 7,420.03            | 4,978.31            | 11.24           | 44.32       | 102.97                | 452.87                            | 6,136.63   | 6,446.20             | 6,392.66              | 53.54                   | 120.391           |                    |         |
| 3,200.00                                     | 3,191.25            | 7,417.42            | 4,978.29            | 11.26           | 44.28       | 102.95                | 455.48                            | 6,136.50   | 6,444.98             | 6,391.44              | 53.54                   | 120.387           |                    |         |
| 3,300.00                                     | 3,289.08            | 7,364.55            | 4,977.80            | 11.62           | 43.55       | 102.48                | 508.26                            | 6,133.65   | 6,420.86             | 6,367.48              | 53.37                   | 120.300           |                    |         |
| 3,400.00                                     | 3,386.91            | 7,339.96            | 4,977.56            | 11.98           | 43.21       | 102.25                | 532.82                            | 6,132.24   | 6,398.08             | 6,344.50              | 53.57                   | 119.429           |                    |         |
| 3,500.00                                     | 3,484.74            | 7,326.09            | 4,977.42            | 12.35           | 43.02       | 102.13                | 546.67                            | 6,131.45   | 6,376.73             | 6,322.83              | 53.90                   | 118.296           |                    |         |
| 3,600.00                                     | 3,582.58            | 7,312.22            | 4,977.28            | 12.72           | 42.83       | 102.00                | 560.51                            | 6,130.67   | 6,356.85             | 6,302.62              | 54.23                   | 117.216           |                    |         |
| 3,700.00                                     | 3,680.41            | 7,298.35            | 4,977.14            | 13.09           | 42.64       | 101.88                | 574.36                            | 6,129.91   | 6,338.44             | 6,283.89              | 54.55                   | 116.189           |                    |         |
| 3,800.00                                     | 3,778.24            | 7,284.49            | 4,977.00            | 13.46           | 42.45       | 101.76                | 588.20                            | 6,129.16   | 6,321.52             | 6,266.65              | 54.87                   | 115.216           |                    |         |
| 3,900.00                                     | 3,876.08            | 7,270.64            | 4,976.87            | 13.83           | 42.26       | 101.63                | 602.03                            | 6,128.42   | 6,306.10             | 6,250.92              | 55.17                   | 114.296           |                    |         |
| 4,000.00                                     | 3,973.91            | 7,256.00            | 4,976.72            | 14.21           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,292.18             | 6,236.72              | 55.46                   | 113.450           |                    |         |
| 4,100.00                                     | 4,071.74            | 7,256.00            | 4,976.72            | 14.58           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,279.80             | 6,223.87              | 55.94                   | 112.269           |                    |         |
| 4,200.00                                     | 4,169.57            | 7,256.00            | 4,976.72            | 14.96           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,268.99             | 6,212.60              | 56.40                   | 111.153           |                    |         |
| 4,300.00                                     | 4,267.41            | 7,256.00            | 4,976.72            | 15.33           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,259.77             | 6,202.91              | 56.85                   | 110.101           |                    |         |
| 4,400.00                                     | 4,365.24            | 7,256.00            | 4,976.72            | 15.71           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,252.12             | 6,194.82              | 57.30                   | 109.110           |                    |         |
| 4,500.00                                     | 4,463.07            | 7,256.00            | 4,976.72            | 16.09           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,246.07             | 6,188.34              | 57.74                   | 108.181           |                    |         |
| 4,600.00                                     | 4,560.90            | 7,256.00            | 4,976.72            | 16.47           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,241.62             | 6,183.46              | 58.16                   | 107.312           |                    |         |
| 4,700.00                                     | 4,658.74            | 7,256.00            | 4,976.72            | 16.85           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,238.77             | 6,180.19              | 58.58                   | 106.503           |                    |         |
| 4,800.00                                     | 4,756.57            | 7,218.39            | 4,976.55            | 17.23           | 41.56       | 101.16                | 654.22                            | 6,126.05   | 6,237.05             | 6,178.55              | 58.50                   | 106.614           |                    |         |
| 4,835.96                                     | 4,791.75            | 7,216.60            | 4,976.55            | 17.36           | 41.53       | 101.14                | 656.01                            | 6,125.99   | 6,236.95             | 6,178.32              | 58.62                   | 106.394           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 18-GYRO-NS-CT, 4369-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 4,900.00                                     | 4,854.40            | 7,213.38            | 4,976.56            | 17.61           | 41.49       | 101.11                | 659.23                            | 6,125.89   | 6,237.27             | 6,178.44              | 58.83                   | 106.021           |                    |         |
| 5,000.00                                     | 4,952.23            | 7,208.31            | 4,976.58            | 17.99           | 41.42       | 101.07                | 664.30                            | 6,125.74   | 6,239.08             | 6,179.93              | 59.15                   | 105.483           |                    |         |
| 5,100.00                                     | 5,050.07            | 7,203.17            | 4,976.60            | 18.37           | 41.35       | 101.02                | 669.44                            | 6,125.60   | 6,242.47             | 6,183.02              | 59.45                   | 104.999           |                    |         |
| 5,200.00                                     | 5,147.95            | 7,197.95            | 4,976.63            | 18.75           | 41.28       | 100.98                | 674.65                            | 6,125.47   | 6,247.45             | 6,187.71              | 59.74                   | 104.569           |                    |         |
| 5,300.00                                     | 5,245.73            | 7,191.00            | 4,977.09            | 19.14           | 40.79       | 100.64                | 711.59                            | 6,124.92   | 6,254.32             | 6,194.70              | 59.62                   | 104.903           |                    |         |
| 5,400.00                                     | 5,343.56            | 7,161.00            | 4,977.09            | 19.52           | 40.79       | 100.64                | 711.59                            | 6,124.92   | 6,262.35             | 6,202.39              | 59.96                   | 104.450           |                    |         |
| 5,500.00                                     | 5,441.40            | 7,161.00            | 4,977.09            | 19.90           | 40.79       | 100.64                | 711.59                            | 6,124.92   | 6,271.96             | 6,211.68              | 60.28                   | 104.050           |                    |         |
| 5,600.00                                     | 5,539.23            | 7,161.00            | 4,977.09            | 20.29           | 40.79       | 100.64                | 711.59                            | 6,124.92   | 6,283.14             | 6,222.55              | 60.59                   | 103.701           |                    |         |
| 5,700.00                                     | 5,637.06            | 7,161.00            | 4,977.09            | 20.67           | 40.79       | 100.64                | 711.59                            | 6,124.92   | 6,295.90             | 6,235.01              | 60.89                   | 103.402           |                    |         |
| 5,800.00                                     | 5,734.90            | 6,404.00            | 4,985.02            | 21.05           | 30.74       | 93.88                 | 1,464.97                          | 6,072.35   | 6,309.98             | 6,258.48              | 51.50                   | 122.531           |                    |         |
| 5,900.00                                     | 5,832.73            | 6,404.00            | 4,985.02            | 21.44           | 30.74       | 93.88                 | 1,464.97                          | 6,072.35   | 6,323.27             | 6,271.48              | 51.80                   | 122.075           |                    |         |
| 6,000.00                                     | 5,930.56            | 6,384.27            | 4,985.08            | 21.83           | 30.48       | 93.70                 | 1,484.54                          | 6,069.84   | 6,338.08             | 6,286.24              | 51.84                   | 122.273           |                    |         |
| 6,100.00                                     | 6,028.39            | 6,368.75            | 4,985.21            | 22.21           | 30.28       | 93.57                 | 1,499.93                          | 6,067.89   | 6,354.37             | 6,302.46              | 51.92                   | 122.393           |                    |         |
| 6,200.00                                     | 6,126.23            | 6,352.64            | 4,985.40            | 22.60           | 30.06       | 93.42                 | 1,515.92                          | 6,065.90   | 6,372.14             | 6,320.16              | 51.98                   | 122.582           |                    |         |
| 6,300.00                                     | 6,224.06            | 6,335.90            | 4,985.68            | 22.98           | 29.84       | 93.27                 | 1,532.53                          | 6,063.85   | 6,391.37             | 6,339.34              | 52.03                   | 122.838           |                    |         |
| 6,400.00                                     | 6,321.89            | 6,318.50            | 4,986.04            | 23.37           | 29.62       | 93.12                 | 1,549.80                          | 6,061.75   | 6,412.04             | 6,359.98              | 52.06                   | 123.163           |                    |         |
| 6,500.00                                     | 6,419.72            | 6,299.62            | 4,986.52            | 23.76           | 29.37       | 92.95                 | 1,568.54                          | 6,059.51   | 6,434.14             | 6,382.07              | 52.07                   | 123.572           |                    |         |
| 6,600.00                                     | 6,517.56            | 6,279.99            | 4,987.02            | 24.14           | 29.12       | 92.78                 | 1,588.03                          | 6,057.19   | 6,457.64             | 6,405.58              | 52.06                   | 124.046           |                    |         |
| 6,700.00                                     | 6,615.39            | 6,260.30            | 4,987.53            | 24.53           | 28.86       | 92.60                 | 1,607.57                          | 6,054.87   | 6,482.52             | 6,430.48              | 52.04                   | 124.567           |                    |         |
| 6,800.00                                     | 6,713.22            | 6,240.57            | 4,988.05            | 24.92           | 28.61       | 92.43                 | 1,627.17                          | 6,052.57   | 6,508.78             | 6,456.77              | 52.01                   | 125.135           |                    |         |
| 6,900.00                                     | 6,811.05            | 6,220.78            | 4,988.58            | 25.30           | 28.36       | 92.25                 | 1,646.81                          | 6,050.26   | 6,536.39             | 6,484.41              | 51.98                   | 125.749           |                    |         |
| 7,000.00                                     | 6,908.89            | 6,218.00            | 4,988.65            | 25.69           | 28.32       | 92.23                 | 1,649.57                          | 6,049.94   | 6,565.37             | 6,513.22              | 52.14                   | 125.907           |                    |         |
| 7,100.00                                     | 7,006.72            | 5,751.00            | 4,988.46            | 26.08           | 22.59       | 88.07                 | 2,110.13                          | 5,976.96   | 6,594.71             | 6,547.82              | 46.89                   | 140.637           |                    |         |
| 7,200.00                                     | 7,104.55            | 5,717.37            | 4,987.54            | 26.47           | 22.21       | 87.77                 | 2,143.02                          | 5,970.02   | 6,624.75             | 6,578.01              | 46.73                   | 141.751           |                    |         |
| 7,216.87                                     | 7,121.05            | 5,716.30            | 4,987.51            | 26.53           | 22.20       | 87.76                 | 2,144.06                          | 5,969.81   | 6,629.98             | 6,583.22              | 46.76                   | 141.794           |                    |         |
| 7,300.00                                     | 7,202.57            | 5,711.32            | 4,987.40            | 26.85           | 22.14       | 88.14                 | 2,148.94                          | 5,968.82   | 6,656.33             | 6,609.47              | 46.87                   | 142.025           |                    |         |
| 7,400.00                                     | 7,301.06            | 5,706.07            | 4,987.29            | 27.23           | 22.08       | 88.61                 | 2,154.10                          | 5,967.78   | 6,689.33             | 6,642.33              | 47.00                   | 142.339           |                    |         |
| 7,500.00                                     | 7,399.97            | 5,701.63            | 4,987.20            | 27.61           | 22.03       | 89.12                 | 2,158.44                          | 5,966.92   | 6,723.70             | 6,676.58              | 47.12                   | 142.694           |                    |         |
| 7,600.00                                     | 7,499.23            | 5,698.04            | 4,987.13            | 27.98           | 21.99       | 89.66                 | 2,161.97                          | 5,966.23   | 6,759.41             | 6,712.17              | 47.24                   | 143.086           |                    |         |
| 7,700.00                                     | 7,598.77            | 5,695.32            | 4,987.08            | 28.34           | 21.96       | 90.24                 | 2,164.64                          | 5,965.70   | 6,796.41             | 6,749.05              | 47.36                   | 143.513           |                    |         |
| 7,800.00                                     | 7,698.53            | 5,693.49            | 4,987.05            | 28.70           | 21.94       | 90.84                 | 2,166.43                          | 5,965.35   | 6,834.66             | 6,787.18              | 47.47                   | 143.973           |                    |         |
| 7,900.00                                     | 7,798.44            | 5,692.58            | 4,987.03            | 29.05           | 21.93       | 91.48                 | 2,167.33                          | 5,965.18   | 6,874.11             | 6,826.53              | 47.58                   | 144.461           |                    |         |
| 8,000.00                                     | 7,898.42            | 5,692.60            | 4,987.03            | 29.39           | 21.93       | 92.14                 | 2,167.30                          | 5,965.18   | 6,914.73             | 6,867.03              | 47.70                   | 144.976           |                    |         |
| 8,013.58                                     | 7,912.00            | 5,692.68            | 4,987.04            | 29.43           | 21.93       | 79.46                 | 2,167.23                          | 5,965.20   | 6,920.33             | 6,872.62              | 47.71                   | 145.048           |                    |         |
| 8,100.00                                     | 7,998.42            | 5,693.24            | 4,987.05            | 29.73           | 21.94       | 79.46                 | 2,166.68                          | 5,965.30   | 6,956.49             | 6,908.69              | 47.80                   | 145.518           |                    |         |
| 8,200.00                                     | 8,098.42            | 5,693.89            | 4,987.06            | 30.07           | 21.95       | 79.47                 | 2,166.04                          | 5,965.43   | 6,999.43             | 6,951.52              | 47.91                   | 146.095           |                    |         |
| 8,300.00                                     | 8,198.42            | 5,694.56            | 4,987.07            | 30.41           | 21.95       | 79.47                 | 2,165.39                          | 5,965.56   | 7,043.54             | 6,995.52              | 48.01                   | 146.706           |                    |         |
| 8,363.62                                     | 8,262.04            | 5,694.99            | 4,987.08            | 30.62           | 21.96       | 79.48                 | 2,164.96                          | 5,965.64   | 7,072.18             | 7,024.11              | 48.07                   | 147.111           |                    |         |
| 8,400.00                                     | 8,298.40            | 5,695.32            | 4,987.08            | 30.75           | 21.96       | -9.88                 | 2,164.64                          | 5,965.70   | 7,087.75             | 7,039.65              | 48.10                   | 147.340           |                    |         |
| 8,450.00                                     | 8,348.10            | 5,696.04            | 4,987.10            | 30.91           | 21.97       | -9.54                 | 2,163.93                          | 5,965.84   | 7,105.99             | 7,057.85              | 48.14                   | 147.603           |                    |         |
| 8,500.00                                     | 8,397.14            | 5,697.07            | 4,987.11            | 31.07           | 21.98       | -9.29                 | 2,162.92                          | 5,966.04   | 7,120.48             | 7,072.30              | 48.18                   | 147.791           |                    |         |
| 8,550.00                                     | 8,445.15            | 5,698.41            | 4,987.14            | 31.23           | 22.00       | -9.10                 | 2,161.60                          | 5,966.30   | 7,131.14             | 7,082.92              | 48.21                   | 147.904           |                    |         |
| 8,600.00                                     | 8,491.77            | 5,700.06            | 4,987.17            | 31.38           | 22.02       | -8.98                 | 2,159.98                          | 5,966.62   | 7,137.89             | 7,089.64              | 48.25                   | 147.942           |                    |         |
| 8,650.00                                     | 8,536.65            | 5,702.02            | 4,987.21            | 31.52           | 22.04       | -8.92                 | 2,158.07                          | 5,966.99   | 7,140.70             | 7,092.42              | 48.28                   | 147.909           |                    |         |
| 8,700.00                                     | 8,579.43            | 5,704.27            | 4,987.25            | 31.66           | 22.06       | -8.92                 | 2,155.86                          | 5,967.43   | 7,139.55             | 7,091.24              | 48.30                   | 147.806           |                    |         |
| 8,750.00                                     | 8,619.80            | 5,706.82            | 4,987.31            | 31.80           | 22.09       | -8.98                 | 2,153.36                          | 5,967.93   | 7,134.44             | 7,086.12              | 48.33                   | 147.634           |                    |         |
| 8,800.00                                     | 8,657.44            | 5,709.64            | 4,987.37            | 31.93           | 22.12       | -9.10                 | 2,150.59                          | 5,968.49   | 7,125.42             | 7,077.07              | 48.34                   | 147.394           |                    |         |
| 8,850.00                                     | 8,692.08            | 5,712.73            | 4,987.43            | 32.06           | 22.16       | -9.29                 | 2,147.56                          | 5,969.10   | 7,112.52             | 7,064.16              | 48.36                   | 147.088           |                    |         |
| 8,900.00                                     | 8,723.44            | 5,716.08            | 4,987.51            | 32.19           | 22.20       | -9.55                 | 2,144.28                          | 5,969.76   | 7,095.83             | 7,047.46              | 48.36                   | 146.718           |                    |         |
| 8,950.00                                     | 8,751.29            | 5,719.66            | 4,987.59            | 32.34           | 22.24       | -9.90                 | 2,140.78                          | 5,970.48   | 7,075.44             | 7,027.08              | 48.37                   | 146.284           |                    |         |
| 9,000.00                                     | 8,775.42            | 5,723.45            | 4,987.69            | 32.50           | 22.28       | -10.34                | 2,137.07                          | 5,971.24   | 7,051.49             | 7,003.12              | 48.37                   | 145.789           |                    |         |
| 9,050.00                                     | 8,795.64            | 5,751.00            | 4,988.46            | 32.67           | 22.59       | -10.68                | 2,110.13                          | 5,976.96   | 7,024.20             | 6,975.61              | 48.59                   | 144.550           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDCS Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 18-GYRO-NS-CT, 4369-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,100.00                                     | 8,811.80            | 5,751.00            | 4,988.46            | 32.87           | 22.59       | -11.43                | 2,110.13                          | 5,976.96   | 6,993.53             | 6,944.99              | 48.55                   | 144.061           |                    |         |
| 9,150.00                                     | 8,823.77            | 5,751.00            | 4,988.46            | 33.10           | 22.59       | -12.37                | 2,110.13                          | 5,976.96   | 6,959.81             | 6,911.31              | 48.49                   | 143.517           |                    |         |
| 9,200.00                                     | 8,831.47            | 5,751.00            | 4,988.46            | 33.34           | 22.59       | -13.57                | 2,110.13                          | 5,976.96   | 6,923.24             | 6,874.80              | 48.44                   | 142.922           |                    |         |
| 9,250.00                                     | 8,834.84            | 5,751.00            | 4,988.46            | 33.60           | 22.59       | -15.14                | 2,110.13                          | 5,976.96   | 6,884.06             | 6,835.67              | 48.39                   | 142.274           |                    |         |
| 9,263.62                                     | 8,835.00            | 5,751.00            | 4,988.46            | 33.67           | 22.59       | -15.65                | 2,110.13                          | 5,976.96   | 6,872.96             | 6,824.59              | 48.37                   | 142.081           |                    |         |
| 9,300.00                                     | 8,835.00            | 5,751.00            | 4,988.46            | 33.88           | 22.59       | -15.65                | 2,110.13                          | 5,976.96   | 6,843.14             | 6,794.81              | 48.33                   | 141.594           |                    |         |
| 9,400.00                                     | 8,835.00            | 5,856.46            | 4,992.64            | 34.53           | 23.85       | -14.20                | 2,007.09                          | 5,999.01   | 6,761.27             | 6,711.99              | 49.27                   | 137.223           |                    |         |
| 9,500.00                                     | 8,835.00            | 5,871.27            | 4,993.22            | 35.30           | 24.03       | -14.00                | 1,992.59                          | 6,002.01   | 6,679.77             | 6,630.47              | 49.30                   | 135.480           |                    |         |
| 9,600.00                                     | 8,835.00            | 6,185.95            | 4,989.52            | 36.17           | 27.92       | -9.46                 | 1,681.42                          | 6,046.43   | 6,598.30             | 6,545.96              | 52.34                   | 126.066           |                    |         |
| 9,700.00                                     | 8,835.00            | 6,189.15            | 4,989.44            | 37.13           | 27.96       | -9.41                 | 1,678.23                          | 6,046.76   | 6,517.16             | 6,464.92              | 52.23                   | 124.773           |                    |         |
| 9,800.00                                     | 8,835.00            | 6,218.00            | 4,988.65            | 38.18           | 28.32       | -8.99                 | 1,649.57                          | 6,049.94   | 6,436.69             | 6,384.31              | 52.38                   | 122.880           |                    |         |
| 9,900.00                                     | 8,835.00            | 6,218.00            | 4,988.65            | 39.31           | 28.32       | -8.99                 | 1,649.57                          | 6,049.94   | 6,356.58             | 6,304.33              | 52.25                   | 121.649           |                    |         |
| 10,000.00                                    | 8,835.00            | 6,218.00            | 4,988.65            | 40.51           | 28.32       | -8.99                 | 1,649.57                          | 6,049.94   | 6,277.05             | 6,224.91              | 52.13                   | 120.404           |                    |         |
| 10,100.00                                    | 8,835.00            | 6,218.00            | 4,988.65            | 41.78           | 28.32       | -8.99                 | 1,649.57                          | 6,049.94   | 6,198.10             | 6,146.08              | 52.02                   | 119.144           |                    |         |
| 10,200.00                                    | 8,835.00            | 6,218.00            | 4,988.65            | 43.10           | 28.32       | -8.99                 | 1,649.57                          | 6,049.94   | 6,119.77             | 6,067.85              | 51.92                   | 117.869           |                    |         |
| 10,300.00                                    | 8,835.00            | 6,218.00            | 4,988.65            | 44.49           | 28.32       | -8.99                 | 1,649.57                          | 6,049.94   | 6,042.08             | 5,990.25              | 51.83                   | 116.577           |                    |         |
| 10,400.00                                    | 8,835.00            | 6,218.00            | 4,988.65            | 45.92           | 28.32       | -8.99                 | 1,649.57                          | 6,049.94   | 5,965.05             | 5,913.30              | 51.75                   | 115.267           |                    |         |
| 10,500.00                                    | 8,835.00            | 6,218.38            | 4,988.64            | 47.39           | 28.33       | -8.98                 | 1,649.19                          | 6,049.99   | 5,888.72             | 5,837.03              | 51.69                   | 113.933           |                    |         |
| 10,600.00                                    | 8,835.00            | 6,228.60            | 4,988.37            | 48.91           | 28.46       | -8.83                 | 1,639.04                          | 6,051.17   | 5,813.09             | 5,761.37              | 51.72                   | 112.390           |                    |         |
| 10,700.00                                    | 8,835.00            | 6,238.88            | 4,988.10            | 50.47           | 28.59       | -8.68                 | 1,628.84                          | 6,052.37   | 5,738.19             | 5,686.42              | 51.77                   | 110.842           |                    |         |
| 10,800.00                                    | 8,835.00            | 6,249.22            | 4,987.82            | 52.06           | 28.72       | -8.53                 | 1,618.58                          | 6,053.58   | 5,664.05             | 5,612.22              | 51.83                   | 109.287           |                    |         |
| 10,900.00                                    | 8,835.00            | 6,259.62            | 4,987.55            | 53.68           | 28.86       | -8.37                 | 1,608.25                          | 6,054.79   | 5,590.68             | 5,538.79              | 51.90                   | 107.727           |                    |         |
| 11,000.00                                    | 8,835.00            | 6,270.08            | 4,987.28            | 55.32           | 28.99       | -8.22                 | 1,597.86                          | 6,056.02   | 5,518.14             | 5,466.16              | 51.98                   | 106.163           |                    |         |
| 11,100.00                                    | 8,835.00            | 6,280.61            | 4,987.00            | 57.00           | 29.13       | -8.06                 | 1,587.42                          | 6,057.26   | 5,446.44             | 5,394.37              | 52.07                   | 104.594           |                    |         |
| 11,200.00                                    | 8,835.00            | 6,291.19            | 4,986.73            | 58.70           | 29.26       | -7.91                 | 1,576.91                          | 6,058.51   | 5,375.63             | 5,323.45              | 52.18                   | 103.022           |                    |         |
| 11,300.00                                    | 8,835.00            | 6,301.85            | 4,986.46            | 60.41           | 29.40       | -7.75                 | 1,566.33                          | 6,059.77   | 5,305.73             | 5,253.43              | 52.30                   | 101.446           |                    |         |
| 11,400.00                                    | 8,835.00            | 6,315.58            | 4,986.11            | 62.15           | 29.58       | -7.54                 | 1,552.70                          | 6,061.41   | 5,236.78             | 5,184.33              | 52.46                   | 99.827            |                    |         |
| 11,500.00                                    | 8,835.00            | 6,348.14            | 4,985.47            | 63.91           | 30.00       | -7.06                 | 1,520.39                          | 6,065.34   | 5,168.80             | 5,116.04              | 52.76                   | 97.959            |                    |         |
| 11,600.00                                    | 8,835.00            | 6,382.60            | 4,985.09            | 65.69           | 30.46       | -6.55                 | 1,486.20                          | 6,069.63   | 5,101.80             | 5,048.71              | 53.09                   | 96.095            |                    |         |
| 11,700.00                                    | 8,835.00            | 6,419.13            | 4,985.04            | 67.47           | 30.94       | -6.01                 | 1,449.96                          | 6,074.30   | 5,035.80             | 4,982.36              | 53.44                   | 94.237            |                    |         |
| 11,800.00                                    | 8,835.00            | 6,417.71            | 4,985.03            | 69.28           | 30.93       | -6.03                 | 1,451.38                          | 6,074.13   | 4,970.92             | 4,917.38              | 53.54                   | 92.845            |                    |         |
| 11,900.00                                    | 8,835.00            | 6,428.08            | 4,985.06            | 71.09           | 31.07       | -5.88                 | 1,441.10                          | 6,075.53   | 4,907.18             | 4,853.44              | 53.74                   | 91.316            |                    |         |
| 12,000.00                                    | 8,835.00            | 6,439.02            | 4,985.12            | 72.92           | 31.21       | -5.71                 | 1,430.26                          | 6,077.03   | 4,844.64             | 4,790.68              | 53.96                   | 89.787            |                    |         |
| 12,100.00                                    | 8,835.00            | 6,450.58            | 4,985.22            | 74.76           | 31.37       | -5.54                 | 1,418.82                          | 6,078.67   | 4,783.34             | 4,729.15              | 54.20                   | 88.259            |                    |         |
| 12,200.00                                    | 8,835.00            | 6,462.82            | 4,985.35            | 76.61           | 31.54       | -5.36                 | 1,406.71                          | 6,080.45   | 4,723.34             | 4,668.88              | 54.46                   | 86.736            |                    |         |
| 12,300.00                                    | 8,835.00            | 6,475.78            | 4,985.52            | 78.47           | 31.71       | -5.17                 | 1,393.89                          | 6,082.38   | 4,664.66             | 4,609.92              | 54.74                   | 85.220            |                    |         |
| 12,400.00                                    | 8,835.00            | 6,489.55            | 4,985.74            | 80.34           | 31.90       | -4.96                 | 1,380.29                          | 6,084.50   | 4,607.36             | 4,552.33              | 55.04                   | 83.712            |                    |         |
| 12,500.00                                    | 8,835.00            | 6,528.43            | 4,986.54            | 82.22           | 32.43       | -4.39                 | 1,341.90                          | 6,090.59   | 4,551.48             | 4,495.98              | 55.50                   | 82.016            |                    |         |
| 12,600.00                                    | 8,835.00            | 12,600.00           | 4,989.70            | 84.11           | 116.54      | -2.69                 | 1,229.69                          | 6,106.33   | 4,496.64             | 4,383.15              | 113.49                  | 39.621 SF         |                    |         |
| 12,700.00                                    | 8,835.00            | 6,699.62            | 4,991.38            | 86.00           | 34.78       | -1.83                 | 1,172.31                          | 6,113.17   | 4,443.49             | 4,386.50              | 56.99                   | 77.968            |                    |         |
| 12,800.00                                    | 8,835.00            | 6,706.50            | 4,991.54            | 87.90           | 34.88       | -1.72                 | 1,165.46                          | 6,113.82   | 4,391.77             | 4,334.48              | 57.29                   | 76.661            |                    |         |
| 12,900.00                                    | 8,835.00            | 6,712.89            | 4,991.67            | 89.81           | 34.96       | -1.63                 | 1,159.09                          | 6,114.41   | 4,341.72             | 4,284.11              | 57.60                   | 75.373            |                    |         |
| 13,000.00                                    | 8,835.00            | 6,718.86            | 4,991.78            | 91.72           | 35.04       | -1.54                 | 1,153.15                          | 6,114.94   | 4,293.40             | 4,235.46              | 57.94                   | 74.105            |                    |         |
| 13,100.00                                    | 8,835.00            | 6,724.43            | 4,991.87            | 93.64           | 35.12       | -1.45                 | 1,147.60                          | 6,115.41   | 4,246.88             | 4,188.59              | 58.29                   | 72.858            |                    |         |
| 13,200.00                                    | 8,835.00            | 6,729.65            | 4,991.94            | 95.56           | 35.19       | -1.37                 | 1,142.40                          | 6,115.85   | 4,202.21             | 4,143.55              | 58.66                   | 71.634            |                    |         |
| 13,300.00                                    | 8,835.00            | 6,734.55            | 4,992.00            | 97.49           | 35.25       | -1.30                 | 1,137.52                          | 6,116.24   | 4,159.46             | 4,100.41              | 59.05                   | 70.434            |                    |         |
| 13,400.00                                    | 8,835.00            | 6,739.15            | 4,992.05            | 99.42           | 35.31       | -1.23                 | 1,132.93                          | 6,116.61   | 4,118.69             | 4,059.22              | 59.47                   | 69.260            |                    |         |
| 13,500.00                                    | 8,835.00            | 6,743.49            | 4,992.09            | 101.36          | 35.37       | -1.16                 | 1,128.61                          | 6,116.94   | 4,079.95             | 4,020.05              | 59.90                   | 68.112            |                    |         |
| 13,600.00                                    | 8,835.00            | 6,747.58            | 4,992.12            | 103.30          | 35.43       | -1.10                 | 1,124.52                          | 6,117.24   | 4,043.30             | 3,982.95              | 60.36                   | 66.991            |                    |         |
| 13,700.00                                    | 8,835.00            | 6,751.45            | 4,992.14            | 105.25          | 35.48       | -1.04                 | 1,120.67                          | 6,117.52   | 4,008.81             | 3,947.98              | 60.83                   | 65.900            |                    |         |
| 13,800.00                                    | 8,835.00            | 6,755.11            | 4,992.16            | 107.20          | 35.53       | -0.99                 | 1,117.01                          | 6,117.78   | 3,976.53             | 3,915.20              | 61.33                   | 64.838            |                    |         |
| 13,900.00                                    | 8,835.00            | 6,758.58            | 4,992.17            | 109.15          | 35.57       | -0.94                 | 1,113.55                          | 6,118.02   | 3,946.52             | 3,884.67              | 61.85                   | 63.807            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 18-GYRO-NS-CT, 4369-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 14,000.00                                    | 8,835.00            | 6,761.88            | 4,992.17            | 111.10          | 35.62       | -0.89                 | 1,110.26                          | 6,118.24   | 3,918.82             | 3,856.43              | 62.39                   | 62.807            |                    |         |
| 14,100.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 113.06          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,893.55             | 3,830.52              | 63.03                   | 61.777            |                    |         |
| 14,200.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 115.03          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,870.61             | 3,807.01              | 63.60                   | 60.855            |                    |         |
| 14,300.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 116.99          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,850.14             | 3,785.93              | 64.21                   | 59.964            |                    |         |
| 14,400.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 118.96          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,832.16             | 3,767.33              | 64.84                   | 59.103            |                    |         |
| 14,500.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 120.93          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,816.73             | 3,751.23              | 65.50                   | 58.275            |                    |         |
| 14,600.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 122.90          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,803.86             | 3,737.68              | 66.18                   | 57.479            |                    |         |
| 14,700.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 124.88          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,793.58             | 3,726.69              | 66.89                   | 56.715            |                    |         |
| 14,800.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 126.86          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,785.92             | 3,718.29              | 67.62                   | 55.985            |                    |         |
| 14,900.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 128.84          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,780.89             | 3,712.50              | 68.39                   | 55.288            |                    |         |
| 15,000.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 130.82          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,778.49             | 3,709.32              | 69.17                   | 54.626            |                    |         |
| 15,040.39                                    | 8,835.00            | 6,780.00            | 4,992.14            | 131.62          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,778.28             | 3,708.78              | 69.49                   | 54.369 CC         |                    |         |
| 15,100.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 132.80          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,778.75             | 3,708.77              | 69.98                   | 54.000 ES         |                    |         |
| 15,200.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 134.79          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,781.65             | 3,710.84              | 70.80                   | 53.410            |                    |         |
| 15,300.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 136.78          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,787.19             | 3,715.54              | 71.65                   | 52.859            |                    |         |
| 15,400.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 138.76          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,795.35             | 3,722.85              | 72.51                   | 52.346            |                    |         |
| 15,500.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 140.76          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,806.13             | 3,732.76              | 73.37                   | 51.873            |                    |         |
| 15,600.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 142.75          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,819.50             | 3,745.25              | 74.25                   | 51.442            |                    |         |
| 15,700.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 144.74          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,835.42             | 3,760.30              | 75.13                   | 51.052            |                    |         |
| 15,800.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 146.74          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,853.88             | 3,777.88              | 76.00                   | 50.706            |                    |         |
| 15,900.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 148.73          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,874.83             | 3,797.95              | 76.88                   | 50.403            |                    |         |
| 16,000.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 150.73          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,898.24             | 3,820.49              | 77.74                   | 50.143            |                    |         |
| 16,100.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 152.73          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,924.05             | 3,845.46              | 78.59                   | 49.928            |                    |         |
| 16,200.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 154.73          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,952.23             | 3,872.79              | 79.43                   | 49.756            |                    |         |
| 16,300.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 156.73          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,982.71             | 3,902.46              | 80.25                   | 49.627            |                    |         |
| 16,400.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 158.74          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 4,015.46             | 3,934.41              | 81.05                   | 49.542            |                    |         |
| 16,500.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 160.74          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 4,050.41             | 3,968.59              | 81.83                   | 49.499            |                    |         |
| 16,600.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 162.74          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 4,087.52             | 4,004.93              | 82.58                   | 49.497            |                    |         |
| 16,700.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 164.75          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 4,126.71             | 4,043.40              | 83.31                   | 49.536            |                    |         |
| 16,800.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 166.76          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 4,167.93             | 4,083.92              | 84.01                   | 49.614            |                    |         |
| 16,900.00                                    | 8,835.00            | 6,812.27            | 4,991.72            | 168.77          | 36.28       | -0.12                 | 1,059.95                          | 6,121.01   | 4,210.68             | 4,125.79              | 84.89                   | 49.601            |                    |         |
| 17,000.00                                    | 8,835.00            | 6,813.29            | 4,991.70            | 170.77          | 36.29       | -0.11                 | 1,058.93                          | 6,121.05   | 4,255.75             | 4,170.20              | 85.55                   | 49.748            |                    |         |
| 17,100.00                                    | 8,835.00            | 6,814.29            | 4,991.68            | 172.78          | 36.31       | -0.09                 | 1,057.93                          | 6,121.09   | 4,302.68             | 4,216.50              | 86.17                   | 49.930            |                    |         |
| 17,200.00                                    | 8,835.00            | 6,815.27            | 4,991.65            | 174.79          | 36.32       | -0.08                 | 1,056.96                          | 6,121.13   | 4,351.40             | 4,264.62              | 86.77                   | 50.146            |                    |         |
| 17,300.00                                    | 8,835.00            | 6,816.22            | 4,991.63            | 176.81          | 36.33       | -0.06                 | 1,056.01                          | 6,121.17   | 4,401.85             | 4,314.50              | 87.35                   | 50.396            |                    |         |
| 17,400.00                                    | 8,835.00            | 6,817.15            | 4,991.61            | 178.82          | 36.34       | -0.05                 | 1,055.08                          | 6,121.21   | 4,453.97             | 4,366.08              | 87.89                   | 50.677            |                    |         |
| 17,500.00                                    | 8,835.00            | 6,818.05            | 4,991.59            | 180.83          | 36.35       | -0.04                 | 1,054.17                          | 6,121.25   | 4,507.71             | 4,419.31              | 88.41                   | 50.989            |                    |         |
| 17,600.00                                    | 8,835.00            | 6,818.94            | 4,991.57            | 182.84          | 36.37       | -0.02                 | 1,053.29                          | 6,121.28   | 4,563.01             | 4,474.11              | 88.90                   | 51.330            |                    |         |
| 17,700.00                                    | 8,835.00            | 6,819.81            | 4,991.55            | 184.86          | 36.38       | -0.01                 | 1,052.42                          | 6,121.32   | 4,619.81             | 4,530.45              | 89.36                   | 51.699            |                    |         |
| 17,800.00                                    | 8,835.00            | 6,820.65            | 4,991.53            | 186.87          | 36.39       | 0.00                  | 1,051.58                          | 6,121.35   | 4,678.06             | 4,588.26              | 89.80                   | 52.095            |                    |         |
| 17,900.00                                    | 8,835.00            | 6,821.48            | 4,991.51            | 188.89          | 36.40       | 0.02                  | 1,050.75                          | 6,121.39   | 4,737.70             | 4,647.49              | 90.21                   | 52.517            |                    |         |
| 18,000.00                                    | 8,835.00            | 6,822.29            | 4,991.49            | 190.91          | 36.41       | 0.03                  | 1,049.94                          | 6,121.42   | 4,798.68             | 4,708.08              | 90.60                   | 52.963            |                    |         |
| 18,100.00                                    | 8,835.00            | 6,823.08            | 4,991.47            | 192.92          | 36.42       | 0.04                  | 1,049.15                          | 6,121.45   | 4,860.96             | 4,769.99              | 90.97                   | 53.432            |                    |         |
| 18,200.00                                    | 8,835.00            | 6,823.85            | 4,991.45            | 194.94          | 36.43       | 0.05                  | 1,048.38                          | 6,121.48   | 4,924.48             | 4,833.16              | 91.32                   | 53.925            |                    |         |
| 18,300.00                                    | 8,835.00            | 6,824.61            | 4,991.43            | 196.96          | 36.44       | 0.06                  | 1,047.62                          | 6,121.51   | 4,989.19             | 4,897.54              | 91.65                   | 54.438            |                    |         |
| 18,400.00                                    | 8,835.00            | 6,825.36            | 4,991.41            | 198.98          | 36.45       | 0.08                  | 1,046.88                          | 6,121.53   | 5,055.05             | 4,963.10              | 91.96                   | 54.972            |                    |         |
| 18,500.00                                    | 8,835.00            | 6,826.08            | 4,991.39            | 201.00          | 36.46       | 0.09                  | 1,046.15                          | 6,121.56   | 5,122.02             | 5,029.78              | 92.25                   | 55.525            |                    |         |
| 18,600.00                                    | 8,835.00            | 6,826.79            | 4,991.37            | 203.02          | 36.47       | 0.10                  | 1,045.44                          | 6,121.59   | 5,190.05             | 5,097.54              | 92.52                   | 56.097            |                    |         |
| 18,700.00                                    | 8,835.00            | 6,827.49            | 4,991.35            | 205.04          | 36.48       | 0.11                  | 1,044.75                          | 6,121.61   | 5,259.11             | 5,166.33              | 92.77                   | 56.687            |                    |         |
| 18,800.00                                    | 8,835.00            | 6,828.17            | 4,991.33            | 207.06          | 36.49       | 0.12                  | 1,044.06                          | 6,121.64   | 5,329.14             | 5,236.12              | 93.01                   | 57.294            |                    |         |
| 18,900.00                                    | 8,835.00            | 6,828.84            | 4,991.31            | 209.08          | 36.50       | 0.13                  | 1,043.40                          | 6,121.66   | 5,400.12             | 5,306.88              | 93.24                   | 57.917            |                    |         |
| 19,000.00                                    | 8,835.00            | 6,829.50            | 4,991.29            | 211.10          | 36.50       | 0.14                  | 1,042.74                          | 6,121.69   | 5,472.00             | 5,378.55              | 93.45                   | 58.555            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

|                            |                            |                                                                               |                            |                        |                    |                              |                                          |                   |                             |                              |                                |                           |                |
|----------------------------|----------------------------|-------------------------------------------------------------------------------|----------------------------|------------------------|--------------------|------------------------------|------------------------------------------|-------------------|-----------------------------|------------------------------|--------------------------------|---------------------------|----------------|
| <b>Offset Design</b>       |                            | Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 4H - Wellbore #2 - Wellbore #2 |                            |                        |                    |                              |                                          |                   |                             |                              |                                | <b>Offset Site Error:</b> | 5.00 ft        |
| <b>Survey Program:</b>     |                            | 18-GYRO-NS-CT, 4369-MWD+HDGM                                                  |                            |                        |                    |                              |                                          |                   |                             |                              |                                | <b>Offset Well Error:</b> | 0.50 ft        |
| <b>Reference</b>           |                            | <b>Offset</b>                                                                 |                            | <b>Semi Major Axis</b> |                    |                              | <b>Distance</b>                          |                   |                             |                              |                                |                           | <b>Warning</b> |
| <b>Measured Depth (ft)</b> | <b>Vertical Depth (ft)</b> | <b>Measured Depth (ft)</b>                                                    | <b>Vertical Depth (ft)</b> | <b>Reference (ft)</b>  | <b>Offset (ft)</b> | <b>Highside Toolface (°)</b> | <b>Offset Wellbore Centre +N/-S (ft)</b> | <b>+E/-W (ft)</b> | <b>Between Centres (ft)</b> | <b>Between Ellipses (ft)</b> | <b>Minimum Separation (ft)</b> | <b>Separation Factor</b>  |                |
| 19,100.00                  | 8,835.00                   | 6,830.14                                                                      | 4,991.28                   | 213.12                 | 36.51              | 0.15                         | 1,042.10                                 | 6,121.71          | 5,544.75                    | 5,451.10                     | 93.65                          | 59.208                    |                |
| 19,200.00                  | 8,835.00                   | 6,830.77                                                                      | 4,991.26                   | 215.15                 | 36.52              | 0.16                         | 1,041.47                                 | 6,121.73          | 5,618.35                    | 5,524.51                     | 93.84                          | 59.875                    |                |
| 19,308.27                  | 8,835.00                   | 6,831.44                                                                      | 4,991.24                   | 217.34                 | 36.53              | 0.17                         | 1,040.80                                 | 6,121.75          | 5,698.93                    | 5,604.91                     | 94.02                          | 60.612                    |                |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 5H - Wellbore #1 - Wellbore #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Site Error:</b> | 5.00 ft |
|----------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 233-GYRO-NS-CT, 4541-MWD+HDGM                                                      |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                          |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                           | Warning |
| Measured Depth (ft)                                                                                | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor         |         |
| 0.00                                                                                               | 0.00                | 0.00                | 0.00                | 0.50            | 5.02        | 67.10                 | 3,259.92                          | 7,715.55   | 8,376.32             |                       |                         |                           |         |
| 100.00                                                                                             | 100.00              | 25.83               | 25.83               | 0.52            | 5.03        | 67.10                 | 3,259.92                          | 7,715.54   | 8,375.95             | 8,370.41              | 5.54                    | 1,511.127                 |         |
| 200.00                                                                                             | 200.00              | 142.19              | 142.19              | 0.70            | 5.03        | 67.09                 | 3,260.14                          | 7,715.27   | 8,375.81             | 8,370.08              | 5.73                    | 1,461.266                 |         |
| 300.00                                                                                             | 300.00              | 270.45              | 270.44              | 0.99            | 5.05        | 67.09                 | 3,260.65                          | 7,714.54   | 8,375.46             | 8,369.43              | 6.04                    | 1,387.503                 |         |
| 400.00                                                                                             | 400.00              | 381.38              | 381.38              | 1.31            | 5.10        | 67.09                 | 3,260.51                          | 7,713.71   | 8,374.71             | 8,368.30              | 6.41                    | 1,306.411                 |         |
| 500.00                                                                                             | 500.00              | 467.82              | 467.81              | 1.65            | 5.16        | 67.09                 | 3,260.14                          | 7,713.29   | 8,374.09             | 8,367.28              | 6.81                    | 1,229.996                 |         |
| 600.00                                                                                             | 600.00              | 569.26              | 569.25              | 1.99            | 5.25        | 67.09                 | 3,259.64                          | 7,712.93   | 8,373.57             | 8,366.33              | 7.25                    | 1,155.705                 |         |
| 700.00                                                                                             | 700.00              | 683.61              | 683.59              | 2.34            | 5.39        | 67.09                 | 3,258.93                          | 7,712.43   | 8,372.93             | 8,365.20              | 7.72                    | 1,083.894                 |         |
| 800.00                                                                                             | 800.00              | 782.25              | 782.23              | 2.69            | 5.52        | 67.10                 | 3,258.10                          | 7,712.00   | 8,372.20             | 8,363.99              | 8.21                    | 1,019.771                 |         |
| 900.00                                                                                             | 900.00              | 852.93              | 852.90              | 3.04            | 5.63        | 67.10                 | 3,257.63                          | 7,711.78   | 8,371.65             | 8,362.98              | 8.67                    | 965.613                   |         |
| 1,000.00                                                                                           | 1,000.00            | 963.24              | 963.22              | 3.40            | 5.81        | 67.10                 | 3,257.10                          | 7,711.57   | 8,371.30             | 8,362.09              | 9.21                    | 909.160                   |         |
| 1,100.00                                                                                           | 1,100.00            | 1,050.16            | 1,050.13            | 3.75            | 5.97        | 67.10                 | 3,256.70                          | 7,711.34   | 8,370.88             | 8,361.16              | 9.72                    | 861.088                   |         |
| 1,200.00                                                                                           | 1,200.00            | 1,174.21            | 1,174.18            | 4.11            | 6.21        | 67.10                 | 3,256.71                          | 7,710.58   | 8,370.29             | 8,359.97              | 10.32                   | 810.927                   |         |
| 1,300.00                                                                                           | 1,300.00            | 1,240.90            | 1,240.87            | 4.46            | 6.35        | 67.10                 | 3,256.92                          | 7,710.19   | 8,369.88             | 8,359.06              | 10.82                   | 773.701                   |         |
| 1,400.00                                                                                           | 1,400.00            | 1,332.05            | 1,332.02            | 4.82            | 6.55        | 67.10                 | 3,257.22                          | 7,709.90   | 8,369.71             | 8,358.34              | 11.37                   | 735.868                   |         |
| 1,500.00                                                                                           | 1,500.00            | 1,431.41            | 1,431.38            | 5.18            | 6.78        | 67.10                 | 3,257.47                          | 7,709.69   | 8,369.62             | 8,357.66              | 11.96                   | 699.895                   |         |
| 1,600.00                                                                                           | 1,600.00            | 1,575.78            | 1,575.74            | 5.53            | 7.13        | 67.09                 | 3,258.08                          | 7,708.83   | 8,369.22             | 8,356.56              | 12.66                   | 660.875                   |         |
| 1,700.00                                                                                           | 1,700.00            | 1,662.21            | 1,662.18            | 5.89            | 7.35        | 67.09                 | 3,258.24                          | 7,708.15   | 8,368.60             | 8,355.36              | 13.24                   | 632.127                   |         |
| 1,800.00                                                                                           | 1,800.00            | 1,741.58            | 1,741.55            | 6.25            | 7.55        | 67.09                 | 3,258.08                          | 7,707.95   | 8,368.27             | 8,354.47              | 13.80                   | 606.347                   |         |
| 1,900.00                                                                                           | 1,900.00            | 1,830.37            | 1,830.34            | 6.61            | 7.79        | 67.09                 | 3,257.64                          | 7,707.97   | 8,368.10             | 8,353.71              | 14.39                   | 581.410                   |         |
| 2,000.00                                                                                           | 2,000.00            | 1,921.00            | 1,920.96            | 6.96            | 8.03        | 67.09                 | 3,257.16                          | 7,708.14   | 8,368.07             | 8,353.07              | 14.99                   | 558.080                   |         |
| 2,033.73                                                                                           | 2,033.73            | 1,952.21            | 1,952.17            | 7.08            | 8.12        | 79.88                 | 3,256.90                          | 7,708.26   | 8,368.06             | 8,352.86              | 15.20                   | 550.528                   |         |
| 2,100.00                                                                                           | 2,099.99            | 2,028.20            | 2,028.16            | 7.32            | 8.33        | 79.89                 | 3,256.11                          | 7,708.61   | 8,367.94             | 8,352.29              | 15.65                   | 534.802                   |         |
| 2,200.00                                                                                           | 2,199.96            | 2,098.99            | 2,098.96            | 7.68            | 8.58        | 100.98                | 347.73                            | 7,834.79   | 8,350.59             | 8,299.50              | 51.09                   | 163.440                   |         |
| 2,300.00                                                                                           | 2,299.86            | 2,168.53            | 2,168.50            | 8.04            | 8.86        | 101.31                | 349.18                            | 7,834.73   | 8,317.56             | 8,265.99              | 51.56                   | 161.309                   |         |
| 2,400.00                                                                                           | 2,399.68            | 2,238.07            | 2,238.04            | 8.39            | 9.15        | 101.62                | 351.19                            | 7,834.64   | 8,285.92             | 8,233.90              | 52.02                   | 159.268                   |         |
| 2,500.00                                                                                           | 2,499.37            | 2,307.61            | 2,307.58            | 8.75            | 9.49        | 101.91                | 353.75                            | 7,834.52   | 8,255.71             | 8,203.23              | 52.48                   | 157.317                   |         |
| 2,600.00                                                                                           | 2,598.90            | 2,377.15            | 2,377.12            | 9.11            | 9.83        | 102.18                | 356.87                            | 7,834.39   | 8,226.95             | 8,174.03              | 52.92                   | 155.453                   |         |
| 2,700.00                                                                                           | 2,698.26            | 2,446.69            | 2,446.66            | 9.46            | 10.17       | 102.43                | 360.57                            | 7,834.23   | 8,199.66             | 8,146.30              | 53.36                   | 153.675                   |         |
| 2,800.00                                                                                           | 2,797.40            | 2,516.23            | 2,516.20            | 9.82            | 10.51       | 102.66                | 364.84                            | 7,834.05   | 8,173.85             | 8,120.07              | 53.78                   | 151.981                   |         |
| 2,900.00                                                                                           | 2,896.30            | 2,585.77            | 2,585.74            | 10.18           | 10.85       | 102.69                | 369.68                            | 7,832.91   | 8,149.68             | 8,095.82              | 53.86                   | 151.318                   |         |
| 3,000.00                                                                                           | 2,994.93            | 2,655.31            | 2,655.28            | 10.54           | 11.19       | 102.92                | 374.68                            | 7,832.91   | 8,126.86             | 8,072.52              | 54.34                   | 149.566                   |         |
| 3,100.00                                                                                           | 3,093.26            | 2,724.85            | 2,724.82            | 10.90           | 11.53       | 103.14                | 379.68                            | 7,832.91   | 8,103.60             | 8,049.78              | 54.81                   | 147.878                   |         |
| 3,195.07                                                                                           | 3,186.42            | 2,794.39            | 2,794.36            | 11.24           | 11.87       | 103.32                | 384.68                            | 7,832.91   | 8,080.84             | 8,031.57              | 55.26                   | 146.332                   |         |
| 3,200.00                                                                                           | 3,191.25            | 2,863.93            | 2,863.90            | 11.26           | 12.21       | 103.32                | 389.68                            | 7,832.91   | 8,058.90             | 8,003.61              | 55.29                   | 146.254                   |         |
| 3,300.00                                                                                           | 3,289.08            | 2,933.47            | 2,933.44            | 11.62           | 12.55       | 103.32                | 394.68                            | 7,832.91   | 8,036.96             | 7,981.82              | 55.76                   | 144.686                   |         |
| 3,400.00                                                                                           | 3,386.91            | 3,002.99            | 3,002.96            | 11.98           | 12.89       | 103.32                | 399.68                            | 7,832.91   | 8,014.54             | 7,959.22              | 56.23                   | 143.171                   |         |
| 3,500.00                                                                                           | 3,484.74            | 3,072.53            | 3,072.50            | 12.35           | 13.23       | 103.32                | 404.68                            | 7,832.91   | 8,003.53             | 7,947.84              | 56.70                   | 141.710                   |         |
| 3,600.00                                                                                           | 3,582.58            | 3,142.07            | 3,142.04            | 12.72           | 13.57       | 103.32                | 409.68                            | 7,832.91   | 8,019.83             | 7,962.67              | 57.16                   | 140.302                   |         |
| 3,700.00                                                                                           | 3,680.41            | 3,211.61            | 3,211.58            | 13.09           | 13.91       | 103.32                | 414.68                            | 7,832.91   | 8,006.36             | 7,948.73              | 57.62                   | 138.947                   |         |
| 3,800.00                                                                                           | 3,778.24            | 3,281.15            | 3,281.12            | 13.46           | 14.25       | 103.08                | 419.68                            | 7,831.87   | 7,993.87             | 7,936.26              | 57.62                   | 138.743                   |         |
| 3,900.00                                                                                           | 3,876.08            | 3,350.69            | 3,350.66            | 13.83           | 14.59       | 103.03                | 424.68                            | 7,831.70   | 7,982.76             | 7,924.78              | 57.97                   | 137.693                   |         |
| 4,000.00                                                                                           | 3,973.91            | 3,420.23            | 3,420.20            | 14.21           | 14.93       | 102.98                | 429.68                            | 7,831.54   | 7,972.86             | 7,914.53              | 58.33                   | 136.690                   |         |
| 4,100.00                                                                                           | 4,071.74            | 3,489.77            | 3,489.74            | 14.58           | 15.27       | 102.93                | 434.68                            | 7,831.39   | 7,964.18             | 7,905.51              | 58.68                   | 135.733                   |         |
| 4,200.00                                                                                           | 4,169.57            | 3,559.31            | 3,559.28            | 14.96           | 15.61       | 102.88                | 439.68                            | 7,831.25   | 7,956.74             | 7,897.72              | 59.02                   | 134.821                   |         |
| 4,300.00                                                                                           | 4,267.41            | 3,628.85            | 3,628.82            | 15.33           | 15.95       | 102.65                | 444.68                            | 7,830.77   | 7,950.65             | 7,891.65              | 59.00                   | 134.753                   |         |
| 4,400.00                                                                                           | 4,365.24            | 3,698.39            | 3,698.36            | 15.71           | 16.29       | 102.65                | 449.68                            | 7,830.77   | 7,945.61             | 7,886.18              | 59.43                   | 133.704                   |         |
| 4,500.00                                                                                           | 4,463.07            | 3,767.93            | 3,767.90            | 16.09           | 16.63       | 102.65                | 454.68                            | 7,830.77   | 7,941.82             | 7,881.97              | 59.85                   | 132.703                   |         |
| 4,600.00                                                                                           | 4,560.90            | 3,837.47            | 3,837.44            | 16.47           | 16.97       | 102.65                | 459.68                            | 7,830.77   | 7,939.29             | 7,879.03              | 60.26                   | 131.752                   |         |
| 4,700.00                                                                                           | 4,658.74            | 3,906.99            | 3,906.96            | 16.85           | 17.31       | 102.65                | 464.68                            | 7,830.77   | 7,938.02             | 7,877.36              | 60.67                   | 130.848                   |         |
| 4,753.88                                                                                           | 4,711.44            | 3,976.53            | 3,976.50            | 17.05           | 17.51       | 102.56                | 503.28                            | 7,830.64   | 7,937.84             | 7,877.14              | 60.70                   | 130.772                   |         |
| 4,800.00                                                                                           | 4,756.57            | 4,046.07            | 4,046.04            | 17.23           | 17.69       | 102.51                | 510.08                            | 7,830.58   | 7,937.97             | 7,877.18              | 60.79                   | 130.576                   |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 5H - Wellbore #1 - Wellbore #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Site Error:</b> | 5.00 ft |
|----------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 233-GYRO-NS-CT, 4541-MWD+HDGM                                                      |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                          |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                           | Warning |
| Measured Depth (ft)                                                                                | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor         |         |
| 4,900.00                                                                                           | 4,854.40            | 7,532.91            | 4,991.40            | 17.61           | 43.44       | 102.41                | 524.72                            | 7,830.45   | 7,939.14             | 7,878.15              | 60.99                   | 130.173                   |         |
| 5,000.00                                                                                           | 4,952.23            | 7,518.39            | 4,991.66            | 17.99           | 43.25       | 102.30                | 539.24                            | 7,830.34   | 7,941.53             | 7,880.35              | 61.18                   | 129.804                   |         |
| 5,100.00                                                                                           | 5,050.07            | 7,503.99            | 4,991.91            | 18.37           | 43.05       | 102.20                | 553.63                            | 7,830.25   | 7,945.14             | 7,883.77              | 61.37                   | 129.468                   |         |
| 5,200.00                                                                                           | 5,147.90            | 7,489.72            | 4,992.14            | 18.75           | 42.86       | 102.10                | 567.91                            | 7,830.17   | 7,949.97             | 7,888.42              | 61.55                   | 129.166                   |         |
| 5,300.00                                                                                           | 5,245.73            | 7,481.12            | 4,992.27            | 19.14           | 42.74       | 102.04                | 576.50                            | 7,830.12   | 7,956.01             | 7,894.21              | 61.80                   | 128.743                   |         |
| 5,400.00                                                                                           | 5,343.56            | 7,437.23            | 4,992.86            | 19.52           | 42.15       | 101.73                | 620.38                            | 7,829.91   | 7,963.23             | 7,901.66              | 61.57                   | 129.333                   |         |
| 5,500.00                                                                                           | 5,441.40            | 7,083.09            | 4,990.48            | 19.90           | 37.37       | 99.23                 | 974.33                            | 7,820.00   | 7,971.23             | 7,914.05              | 57.18                   | 139.394                   |         |
| 5,600.00                                                                                           | 5,539.23            | 7,068.69            | 4,990.17            | 20.29           | 37.18       | 99.12                 | 988.71                            | 7,819.29   | 7,980.00             | 7,922.66              | 57.34                   | 139.166                   |         |
| 5,700.00                                                                                           | 5,637.06            | 7,054.40            | 4,989.85            | 20.67           | 36.99       | 99.02                 | 1,002.98                          | 7,818.59   | 7,989.99             | 7,932.49              | 57.49                   | 138.973                   |         |
| 5,800.00                                                                                           | 5,734.90            | 7,040.22            | 4,989.52            | 21.05           | 36.80       | 98.92                 | 1,017.14                          | 7,817.90   | 8,001.17             | 7,943.53              | 57.64                   | 138.815                   |         |
| 5,900.00                                                                                           | 5,832.73            | 5,900.00            | 4,987.56            | 21.44           | 21.67       | 98.35                 | 1,097.29                          | 7,813.72   | 8,013.52             | 7,970.62              | 42.89                   | 186.821                   |         |
| 6,000.00                                                                                           | 5,930.56            | 6,000.00            | 4,987.12            | 21.83           | 22.99       | 98.23                 | 1,115.27                          | 7,812.71   | 8,026.95             | 7,982.41              | 44.54                   | 180.234                   |         |
| 6,100.00                                                                                           | 6,028.39            | 6,863.32            | 4,985.18            | 22.21           | 34.44       | 97.67                 | 1,193.70                          | 7,807.93   | 8,041.43             | 7,985.17              | 56.26                   | 142.939                   |         |
| 6,200.00                                                                                           | 6,126.23            | 6,849.72            | 4,984.82            | 22.60           | 34.26       | 97.57                 | 1,207.26                          | 7,807.06   | 8,057.08             | 8,000.69              | 56.39                   | 142.884                   |         |
| 6,300.00                                                                                           | 6,224.06            | 6,836.22            | 4,984.46            | 22.98           | 34.08       | 97.48                 | 1,220.73                          | 7,806.21   | 8,073.92             | 8,017.40              | 56.52                   | 142.863                   |         |
| 6,400.00                                                                                           | 6,321.89            | 6,822.83            | 4,984.09            | 23.37           | 33.90       | 97.38                 | 1,234.10                          | 7,805.37   | 8,091.92             | 8,035.29              | 56.64                   | 142.876                   |         |
| 6,500.00                                                                                           | 6,419.72            | 6,807.48            | 4,983.66            | 23.76           | 33.70       | 97.27                 | 1,249.41                          | 7,804.41   | 8,111.09             | 8,054.36              | 56.73                   | 142.988                   |         |
| 6,600.00                                                                                           | 6,517.56            | 6,773.57            | 4,982.92            | 24.14           | 33.25       | 97.03                 | 1,283.24                          | 7,802.30   | 8,131.39             | 8,074.82              | 56.57                   | 143.739                   |         |
| 6,700.00                                                                                           | 6,615.39            | 6,735.24            | 4,982.54            | 24.53           | 32.75       | 96.76                 | 1,321.49                          | 7,799.91   | 8,152.78             | 8,096.42              | 56.35                   | 144.672                   |         |
| 6,800.00                                                                                           | 6,713.22            | 6,717.00            | 4,982.53            | 24.92           | 32.51       | 96.63                 | 1,339.70                          | 7,798.78   | 8,175.25             | 8,118.86              | 56.39                   | 144.975                   |         |
| 6,900.00                                                                                           | 6,811.05            | 6,717.00            | 4,982.53            | 25.30           | 32.51       | 96.63                 | 1,339.70                          | 7,798.78   | 8,198.88             | 8,142.22              | 56.66                   | 144.711                   |         |
| 7,000.00                                                                                           | 6,908.89            | 6,717.00            | 4,982.53            | 25.69           | 32.51       | 96.63                 | 1,339.70                          | 7,798.78   | 8,223.65             | 8,166.73              | 56.92                   | 144.487                   |         |
| 7,100.00                                                                                           | 7,006.72            | 6,689.09            | 4,982.57            | 26.08           | 32.15       | 96.44                 | 1,367.56                          | 7,797.11   | 8,249.43             | 8,192.61              | 56.82                   | 145.190                   |         |
| 7,200.00                                                                                           | 7,104.55            | 6,681.33            | 4,982.58            | 26.47           | 32.05       | 96.38                 | 1,375.31                          | 7,796.68   | 8,276.39             | 8,219.42              | 56.97                   | 145.281                   |         |
| 7,216.87                                                                                           | 7,121.05            | 6,680.02            | 4,982.58            | 26.53           | 32.03       | 96.37                 | 1,376.61                          | 7,796.61   | 8,281.04             | 8,224.05              | 56.99                   | 145.300                   |         |
| 7,300.00                                                                                           | 7,202.57            | 6,673.93            | 4,982.58            | 26.85           | 31.96       | 96.69                 | 1,382.69                          | 7,796.27   | 8,304.35             | 8,247.23              | 57.11                   | 145.398                   |         |
| 7,400.00                                                                                           | 7,301.06            | 6,667.51            | 4,982.58            | 27.23           | 31.87       | 97.09                 | 1,389.11                          | 7,795.93   | 8,333.11             | 8,275.85              | 57.26                   | 145.526                   |         |
| 7,500.00                                                                                           | 7,399.97            | 6,662.07            | 4,982.58            | 27.61           | 31.80       | 97.52                 | 1,394.54                          | 7,795.65   | 8,362.65             | 8,305.24              | 57.41                   | 145.665                   |         |
| 7,600.00                                                                                           | 7,499.23            | 6,657.61            | 4,982.58            | 27.98           | 31.74       | 97.96                 | 1,399.00                          | 7,795.42   | 8,392.94             | 8,335.38              | 57.56                   | 145.815                   |         |
| 7,700.00                                                                                           | 7,598.77            | 6,654.12            | 4,982.58            | 28.34           | 31.70       | 98.42                 | 1,402.48                          | 7,795.24   | 8,423.96             | 8,366.25              | 57.71                   | 145.976                   |         |
| 7,800.00                                                                                           | 7,698.53            | 6,651.61            | 4,982.57            | 28.70           | 31.67       | 98.89                 | 1,404.99                          | 7,795.12   | 8,455.69             | 8,397.83              | 57.86                   | 146.146                   |         |
| 7,900.00                                                                                           | 7,798.44            | 6,650.07            | 4,982.57            | 29.05           | 31.65       | 99.39                 | 1,406.53                          | 7,795.04   | 8,488.09             | 8,430.08              | 58.01                   | 146.325                   |         |
| 8,000.00                                                                                           | 7,898.42            | 6,649.49            | 4,982.57            | 29.39           | 31.64       | 99.90                 | 1,407.10                          | 7,795.01   | 8,521.14             | 8,462.98              | 58.16                   | 146.512                   |         |
| 8,013.58                                                                                           | 7,912.00            | 6,649.49            | 4,982.57            | 29.43           | 31.64       | 87.20                 | 1,407.11                          | 7,795.01   | 8,525.67             | 8,467.49              | 58.18                   | 146.538                   |         |
| 8,100.00                                                                                           | 7,998.42            | 6,649.52            | 4,982.57            | 29.73           | 31.64       | 87.20                 | 1,407.07                          | 7,795.01   | 8,554.97             | 8,496.66              | 58.31                   | 146.713                   |         |
| 8,200.00                                                                                           | 8,098.42            | 6,649.56            | 4,982.57            | 30.07           | 31.64       | 87.20                 | 1,407.04                          | 7,795.02   | 8,589.83             | 8,531.37              | 58.46                   | 146.941                   |         |
| 8,300.00                                                                                           | 8,198.42            | 6,649.59            | 4,982.57            | 30.41           | 31.64       | 87.20                 | 1,407.00                          | 7,795.02   | 8,625.70             | 8,567.10              | 58.60                   | 147.195                   |         |
| 8,363.62                                                                                           | 8,262.04            | 6,649.61            | 4,982.57            | 30.62           | 31.64       | 87.20                 | 1,406.98                          | 7,795.02   | 8,649.05             | 8,590.36              | 58.69                   | 147.371                   |         |
| 8,400.00                                                                                           | 8,298.40            | 6,649.64            | 4,982.57            | 30.75           | 31.64       | -2.41                 | 1,406.95                          | 7,795.02   | 8,661.50             | 8,602.77              | 58.73                   | 147.469                   |         |
| 8,450.00                                                                                           | 8,348.10            | 6,649.75            | 4,982.57            | 30.91           | 31.64       | -2.35                 | 1,406.85                          | 7,795.02   | 8,675.26             | 8,616.47              | 58.79                   | 147.563                   |         |
| 8,500.00                                                                                           | 8,397.14            | 6,649.92            | 4,982.57            | 31.07           | 31.65       | -2.30                 | 1,406.68                          | 7,795.03   | 8,685.06             | 8,626.22              | 58.84                   | 147.598                   |         |
| 8,550.00                                                                                           | 8,445.15            | 6,650.16            | 4,982.57            | 31.23           | 31.65       | -2.28                 | 1,406.44                          | 7,795.05   | 8,690.83             | 8,631.94              | 58.89                   | 147.575                   |         |
| 8,600.00                                                                                           | 8,491.77            | 6,650.46            | 4,982.57            | 31.38           | 31.65       | -2.27                 | 1,406.13                          | 7,795.06   | 8,692.55             | 8,633.61              | 58.93                   | 147.497                   |         |
| 8,650.00                                                                                           | 8,536.65            | 6,650.83            | 4,982.57            | 31.52           | 31.66       | -2.28                 | 1,405.76                          | 7,795.08   | 8,690.19             | 8,631.22              | 58.97                   | 147.366                   |         |
| 8,700.00                                                                                           | 8,579.43            | 6,651.27            | 4,982.57            | 31.66           | 31.66       | -2.30                 | 1,405.33                          | 7,795.10   | 8,683.78             | 8,624.78              | 59.00                   | 147.184                   |         |
| 8,750.00                                                                                           | 8,619.80            | 6,651.76            | 4,982.57            | 31.80           | 31.67       | -2.34                 | 1,404.84                          | 7,795.12   | 8,673.35             | 8,614.33              | 59.02                   | 146.952                   |         |
| 8,800.00                                                                                           | 8,657.44            | 6,652.30            | 4,982.58            | 31.93           | 31.68       | -2.40                 | 1,404.30                          | 7,795.15   | 8,658.97             | 8,599.94              | 59.04                   | 146.673                   |         |
| 8,850.00                                                                                           | 8,692.08            | 6,652.90            | 4,982.58            | 32.06           | 31.68       | -2.48                 | 1,403.70                          | 7,795.18   | 8,640.74             | 8,581.69              | 59.04                   | 146.348                   |         |
| 8,900.00                                                                                           | 8,723.44            | 6,653.55            | 4,982.58            | 32.19           | 31.69       | -2.58                 | 1,403.05                          | 7,795.21   | 8,618.75             | 8,559.71              | 59.04                   | 145.979                   |         |
| 8,950.00                                                                                           | 8,751.29            | 6,654.24            | 4,982.58            | 32.34           | 31.70       | -2.71                 | 1,402.36                          | 7,795.25   | 8,593.16             | 8,534.13              | 59.03                   | 145.567                   |         |
| 9,000.00                                                                                           | 8,775.42            | 6,654.97            | 4,982.58            | 32.50           | 31.71       | -2.88                 | 1,401.63                          | 7,795.29   | 8,564.13             | 8,505.11              | 59.02                   | 145.113                   |         |
| 9,050.00                                                                                           | 8,795.64            | 6,655.74            | 4,982.58            | 32.67           | 31.72       | -3.10                 | 1,400.86                          | 7,795.32   | 8,531.84             | 8,472.84              | 59.00                   | 144.619                   |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 233-GYRO-NS-CT, 4541-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,100.00                                      | 8,811.80            | 6,656.54            | 4,982.58            | 32.87           | 31.73       | -3.37                 | 1,400.06                          | 7,795.36   | 8,496.50             | 8,437.53              | 58.97                   | 144.086           |                    |         |
| 9,150.00                                      | 8,823.77            | 6,657.36            | 4,982.58            | 33.10           | 31.74       | -3.73                 | 1,399.24                          | 7,795.41   | 8,458.35             | 8,399.41              | 58.94                   | 143.516           |                    |         |
| 9,200.00                                      | 8,831.47            | 6,658.21            | 4,982.58            | 33.34           | 31.75       | -4.20                 | 1,398.40                          | 7,795.45   | 8,417.64             | 8,358.74              | 58.90                   | 142.909           |                    |         |
| 9,250.00                                      | 8,834.84            | 6,659.06            | 4,982.58            | 33.60           | 31.76       | -4.86                 | 1,397.54                          | 7,795.49   | 8,374.64             | 8,315.78              | 58.87                   | 142.267           |                    |         |
| 9,263.62                                      | 8,835.00            | 6,659.30            | 4,982.58            | 33.67           | 31.77       | -5.08                 | 1,397.31                          | 7,795.50   | 8,362.57             | 8,303.72              | 58.86                   | 142.081           |                    |         |
| 9,300.00                                      | 8,835.00            | 6,659.93            | 4,982.58            | 33.88           | 31.77       | -5.07                 | 1,396.68                          | 7,795.54   | 8,330.16             | 8,271.33              | 58.83                   | 141.604           |                    |         |
| 9,400.00                                      | 8,835.00            | 6,661.68            | 4,982.58            | 34.53           | 31.80       | -5.04                 | 1,394.93                          | 7,795.63   | 8,241.23             | 8,182.49              | 58.74                   | 140.296           |                    |         |
| 9,500.00                                      | 8,835.00            | 6,663.45            | 4,982.58            | 35.30           | 31.82       | -5.02                 | 1,393.16                          | 7,795.72   | 8,152.56             | 8,093.90              | 58.66                   | 138.981           |                    |         |
| 9,600.00                                      | 8,835.00            | 6,665.25            | 4,982.58            | 36.17           | 31.84       | -4.99                 | 1,391.37                          | 7,795.81   | 8,064.15             | 8,005.57              | 58.58                   | 137.659           |                    |         |
| 9,700.00                                      | 8,835.00            | 6,667.08            | 4,982.58            | 37.13           | 31.87       | -4.96                 | 1,389.54                          | 7,795.91   | 7,976.01             | 7,917.51              | 58.51                   | 136.329           |                    |         |
| 9,800.00                                      | 8,835.00            | 6,668.93            | 4,982.58            | 38.18           | 31.89       | -4.93                 | 1,387.69                          | 7,796.01   | 7,888.16             | 7,829.72              | 58.43                   | 134.992           |                    |         |
| 9,900.00                                      | 8,835.00            | 6,670.82            | 4,982.58            | 39.31           | 31.91       | -4.91                 | 1,385.80                          | 7,796.11   | 7,800.59             | 7,742.23              | 58.37                   | 133.647           |                    |         |
| 10,000.00                                     | 8,835.00            | 6,672.73            | 4,982.58            | 40.51           | 31.94       | -4.88                 | 1,383.89                          | 7,796.21   | 7,713.33             | 7,655.03              | 58.30                   | 132.294           |                    |         |
| 10,100.00                                     | 8,835.00            | 6,674.68            | 4,982.58            | 41.78           | 31.96       | -4.85                 | 1,381.95                          | 7,796.31   | 7,626.38             | 7,568.14              | 58.25                   | 130.933           |                    |         |
| 10,200.00                                     | 8,835.00            | 6,676.65            | 4,982.58            | 43.10           | 31.99       | -4.82                 | 1,379.98                          | 7,796.42   | 7,539.75             | 7,481.56              | 58.19                   | 129.563           |                    |         |
| 10,300.00                                     | 8,835.00            | 6,678.66            | 4,982.58            | 44.49           | 32.02       | -4.79                 | 1,377.98                          | 7,796.53   | 7,453.46             | 7,395.31              | 58.15                   | 128.185           |                    |         |
| 10,400.00                                     | 8,835.00            | 6,680.69            | 4,982.58            | 45.92           | 32.04       | -4.76                 | 1,375.94                          | 7,796.64   | 7,367.51             | 7,309.40              | 58.10                   | 126.797           |                    |         |
| 10,500.00                                     | 8,835.00            | 6,682.77            | 4,982.58            | 47.39           | 32.07       | -4.73                 | 1,373.88                          | 7,796.76   | 7,281.92             | 7,223.85              | 58.07                   | 125.400           |                    |         |
| 10,600.00                                     | 8,835.00            | 6,684.87            | 4,982.58            | 48.91           | 32.10       | -4.69                 | 1,371.77                          | 7,796.88   | 7,196.70             | 7,138.65              | 58.04                   | 123.994           |                    |         |
| 10,700.00                                     | 8,835.00            | 6,687.01            | 4,982.57            | 50.47           | 32.12       | -4.66                 | 1,369.64                          | 7,797.00   | 7,111.86             | 7,053.84              | 58.02                   | 122.578           |                    |         |
| 10,800.00                                     | 8,835.00            | 6,689.19            | 4,982.57            | 52.06           | 32.15       | -4.63                 | 1,367.47                          | 7,797.12   | 7,027.42             | 6,969.41              | 58.00                   | 121.152           |                    |         |
| 10,900.00                                     | 8,835.00            | 6,691.40            | 4,982.57            | 53.68           | 32.18       | -4.60                 | 1,365.26                          | 7,797.25   | 6,943.39             | 6,885.39              | 58.00                   | 119.717           |                    |         |
| 11,000.00                                     | 8,835.00            | 6,693.65            | 4,982.57            | 55.32           | 32.21       | -4.56                 | 1,363.01                          | 7,797.38   | 6,859.78             | 6,801.78              | 58.00                   | 118.271           |                    |         |
| 11,100.00                                     | 8,835.00            | 6,717.00            | 4,982.53            | 57.00           | 32.51       | -4.21                 | 1,339.70                          | 7,798.78   | 6,776.70             | 6,718.47              | 58.23                   | 116.377           |                    |         |
| 11,200.00                                     | 8,835.00            | 6,717.00            | 4,982.53            | 58.70           | 32.51       | -4.21                 | 1,339.70                          | 7,798.78   | 6,693.98             | 6,635.76              | 58.22                   | 114.968           |                    |         |
| 11,300.00                                     | 8,835.00            | 6,717.00            | 4,982.53            | 60.41           | 32.51       | -4.21                 | 1,339.70                          | 7,798.78   | 6,611.74             | 6,553.51              | 58.23                   | 113.548           |                    |         |
| 11,400.00                                     | 8,835.00            | 6,717.00            | 4,982.53            | 62.15           | 32.51       | -4.21                 | 1,339.70                          | 7,798.78   | 6,530.00             | 6,471.76              | 58.24                   | 112.117           |                    |         |
| 11,500.00                                     | 8,835.00            | 6,717.00            | 4,982.53            | 63.91           | 32.51       | -4.21                 | 1,339.70                          | 7,798.78   | 6,448.77             | 6,390.50              | 58.27                   | 110.675           |                    |         |
| 11,600.00                                     | 8,835.00            | 11,600.00           | 4,983.03            | 65.69           | 97.02       | -3.63                 | 1,301.38                          | 7,801.17   | 6,367.96             | 6,253.78              | 114.18                  | 55.771            |                    |         |
| 11,700.00                                     | 8,835.00            | 11,700.00           | 4,983.10            | 67.47           | 98.35       | -3.55                 | 1,295.76                          | 7,801.52   | 6,287.78             | 6,172.66              | 115.12                  | 54.618            |                    |         |
| 11,800.00                                     | 8,835.00            | 11,800.00           | 4,983.18            | 69.28           | 99.67       | -3.46                 | 1,290.14                          | 7,801.87   | 6,208.17             | 6,092.12              | 116.06                  | 53.491            |                    |         |
| 11,900.00                                     | 8,835.00            | 11,900.00           | 4,983.25            | 71.09           | 101.00      | -3.38                 | 1,284.52                          | 7,802.22   | 6,129.16             | 6,012.17              | 116.99                  | 52.391            |                    |         |
| 12,000.00                                     | 8,835.00            | 12,000.00           | 4,983.33            | 72.92           | 102.32      | -3.29                 | 1,278.90                          | 7,802.57   | 6,050.76             | 5,932.85              | 117.91                  | 51.317            |                    |         |
| 12,100.00                                     | 8,835.00            | 12,100.00           | 4,983.40            | 74.76           | 103.65      | -3.21                 | 1,273.28                          | 7,802.92   | 5,973.00             | 5,854.18              | 118.82                  | 50.269            |                    |         |
| 12,200.00                                     | 8,835.00            | 6,838.04            | 4,984.51            | 76.61           | 34.10       | -2.38                 | 1,218.92                          | 7,806.32   | 5,895.86             | 5,835.93              | 59.93                   | 98.382            |                    |         |
| 12,300.00                                     | 8,835.00            | 6,842.33            | 4,984.63            | 78.47           | 34.16       | -2.32                 | 1,214.64                          | 7,806.60   | 5,819.41             | 5,759.33              | 60.08                   | 96.855            |                    |         |
| 12,400.00                                     | 8,835.00            | 6,846.64            | 4,984.74            | 80.34           | 34.21       | -2.25                 | 1,210.34                          | 7,806.87   | 5,743.68             | 5,683.43              | 60.25                   | 95.326            |                    |         |
| 12,500.00                                     | 8,835.00            | 6,850.97            | 4,984.86            | 82.22           | 34.27       | -2.19                 | 1,206.02                          | 7,807.14   | 5,668.70             | 5,608.26              | 60.44                   | 93.794            |                    |         |
| 12,600.00                                     | 8,835.00            | 6,855.32            | 4,984.97            | 84.11           | 34.33       | -2.12                 | 1,201.68                          | 7,807.42   | 5,594.49             | 5,533.86              | 60.64                   | 92.261            |                    |         |
| 12,700.00                                     | 8,835.00            | 6,859.70            | 4,985.09            | 86.00           | 34.39       | -2.06                 | 1,197.31                          | 7,807.70   | 5,521.10             | 5,460.24              | 60.85                   | 90.727            |                    |         |
| 12,800.00                                     | 8,835.00            | 6,864.09            | 4,985.20            | 87.90           | 34.45       | -1.99                 | 1,192.93                          | 7,807.98   | 5,448.54             | 5,387.46              | 61.09                   | 89.194            |                    |         |
| 12,900.00                                     | 8,835.00            | 6,868.51            | 4,985.31            | 89.81           | 34.50       | -1.92                 | 1,188.52                          | 7,808.26   | 5,376.87             | 5,315.53              | 61.34                   | 87.663            |                    |         |
| 13,000.00                                     | 8,835.00            | 6,872.95            | 4,985.43            | 91.72           | 34.56       | -1.86                 | 1,184.09                          | 7,808.55   | 5,306.10             | 5,244.50              | 61.60                   | 86.135            |                    |         |
| 13,100.00                                     | 8,835.00            | 6,877.42            | 4,985.54            | 93.64           | 34.62       | -1.79                 | 1,179.63                          | 7,808.84   | 5,236.28             | 5,174.40              | 61.89                   | 84.611            |                    |         |
| 13,200.00                                     | 8,835.00            | 6,881.90            | 4,985.65            | 95.56           | 34.68       | -1.72                 | 1,175.16                          | 7,809.13   | 5,167.45             | 5,105.26              | 62.19                   | 83.093            |                    |         |
| 13,300.00                                     | 8,835.00            | 6,886.41            | 4,985.76            | 97.49           | 34.74       | -1.65                 | 1,170.66                          | 7,809.42   | 5,099.65             | 5,037.14              | 62.51                   | 81.583            |                    |         |
| 13,400.00                                     | 8,835.00            | 6,890.94            | 4,985.87            | 99.42           | 34.80       | -1.58                 | 1,166.14                          | 7,809.71   | 5,032.91             | 4,970.07              | 62.85                   | 80.082            |                    |         |
| 13,500.00                                     | 8,835.00            | 6,895.50            | 4,985.99            | 101.36          | 34.86       | -1.51                 | 1,161.60                          | 7,810.01   | 4,967.29             | 4,904.09              | 63.20                   | 78.591            |                    |         |
| 13,600.00                                     | 8,835.00            | 6,900.08            | 4,986.10            | 103.30          | 34.92       | -1.44                 | 1,157.03                          | 7,810.31   | 4,902.82             | 4,839.24              | 63.58                   | 77.113            |                    |         |
| 13,700.00                                     | 8,835.00            | 6,906.00            | 4,986.24            | 105.25          | 35.00       | -1.36                 | 1,151.12                          | 7,810.69   | 4,839.56             | 4,775.57              | 63.98                   | 75.637            |                    |         |
| 13,800.00                                     | 8,835.00            | 6,917.62            | 4,986.51            | 107.20          | 35.16       | -1.18                 | 1,139.53                          | 7,811.44   | 4,777.54             | 4,713.09              | 64.45                   | 74.128            |                    |         |
| 13,900.00                                     | 8,835.00            | 6,932.48            | 4,986.87            | 109.15          | 35.35       | -0.95                 | 1,124.70                          | 7,812.35   | 4,716.80             | 4,651.85              | 64.96                   | 72.615            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               |                      | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|---------|
| Survey Program: 233-GYRO-NS-CT, 4541-MWD+HDGM |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               |                      | Offset Well Error: | 0.50 ft |
| Reference                                     |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                      |                    | Warning |
| Measured Depth<br>(ft)                        | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor |                    |         |
| 14,000.00                                     | 8,835.00               | 6,945.90               | 4,987.20               | 111.10            | 35.53          | -0.75                       | 1,111.30                                | 7,813.15      | 4,657.41                   | 4,591.94                    | 65.47                         | 71.139               |                    |         |
| 14,100.00                                     | 8,835.00               | 6,958.10               | 4,987.50               | 113.06            | 35.70          | -0.57                       | 1,099.13                                | 7,813.83      | 4,599.40                   | 4,533.42                    | 65.99                         | 69.699               |                    |         |
| 14,200.00                                     | 8,835.00               | 6,969.22               | 4,987.77               | 115.03            | 35.85          | -0.40                       | 1,088.03                                | 7,814.44      | 4,542.85                   | 4,476.33                    | 66.52                         | 68.294               |                    |         |
| 14,300.00                                     | 8,835.00               | 6,979.41               | 4,988.02               | 116.99            | 35.98          | -0.24                       | 1,077.86                                | 7,814.97      | 4,487.80                   | 4,420.74                    | 67.06                         | 66.923               |                    |         |
| 14,400.00                                     | 8,835.00               | 6,988.77               | 4,988.26               | 118.96            | 36.11          | -0.10                       | 1,068.51                                | 7,815.44      | 4,434.32                   | 4,366.71                    | 67.61                         | 65.587               |                    |         |
| 14,500.00                                     | 8,835.00               | 6,997.41               | 4,988.48               | 120.93            | 36.22          | 0.03                        | 1,059.89                                | 7,815.86      | 4,382.45                   | 4,314.28                    | 68.17                         | 64.285               |                    |         |
| 14,600.00                                     | 8,835.00               | 7,005.40               | 4,988.68               | 122.90            | 36.33          | 0.15                        | 1,051.91                                | 7,816.23      | 4,332.26                   | 4,263.52                    | 68.75                         | 63.018               |                    |         |
| 14,700.00                                     | 8,835.00               | 7,012.82               | 4,988.87               | 124.88            | 36.43          | 0.27                        | 1,044.50                                | 7,816.57      | 4,283.82                   | 4,214.48                    | 69.33                         | 61.787               |                    |         |
| 14,800.00                                     | 8,835.00               | 7,008.90               | 4,988.77               | 126.86            | 36.38          | 0.21                        | 1,048.41                                | 7,816.40      | 4,237.18                   | 4,167.33                    | 69.86                         | 60.656               |                    |         |
| 14,900.00                                     | 8,835.00               | 7,012.25               | 4,988.85               | 128.84            | 36.42          | 0.26                        | 1,045.07                                | 7,816.56      | 4,192.41                   | 4,121.96                    | 70.45                         | 59.512               |                    |         |
| 15,000.00                                     | 8,835.00               | 7,015.61               | 4,988.93               | 130.82            | 36.47          | 0.31                        | 1,041.71                                | 7,816.72      | 4,149.56                   | 4,078.50                    | 71.05                         | 58.401               |                    |         |
| 15,100.00                                     | 8,835.00               | 7,019.00               | 4,989.01               | 132.80            | 36.51          | 0.36                        | 1,038.33                                | 7,816.88      | 4,108.69                   | 4,037.01                    | 71.67                         | 57.324               |                    |         |
| 15,200.00                                     | 8,835.00               | 7,022.39               | 4,989.10               | 134.79            | 36.56          | 0.41                        | 1,034.94                                | 7,817.04      | 4,069.86                   | 3,997.55                    | 72.31                         | 56.282               |                    |         |
| 15,300.00                                     | 8,835.00               | 7,025.81               | 4,989.18               | 136.78            | 36.60          | 0.46                        | 1,031.53                                | 7,817.20      | 4,033.14                   | 3,960.18                    | 72.96                         | 55.276               |                    |         |
| 15,400.00                                     | 8,835.00               | 7,029.24               | 4,989.26               | 138.76            | 36.65          | 0.51                        | 1,028.10                                | 7,817.37      | 3,998.58                   | 3,924.95                    | 73.63                         | 54.306               |                    |         |
| 15,500.00                                     | 8,835.00               | 7,032.69               | 4,989.34               | 140.76            | 36.69          | 0.57                        | 1,024.65                                | 7,817.53      | 3,966.24                   | 3,891.93                    | 74.31                         | 53.373               |                    |         |
| 15,600.00                                     | 8,835.00               | 7,036.16               | 4,989.43               | 142.75            | 36.74          | 0.62                        | 1,021.19                                | 7,817.70      | 3,936.17                   | 3,861.16                    | 75.01                         | 52.477               |                    |         |
| 15,700.00                                     | 8,835.00               | 7,039.65               | 4,989.51               | 144.74            | 36.79          | 0.67                        | 1,017.71                                | 7,817.87      | 3,908.42                   | 3,832.70                    | 75.72                         | 51.618               |                    |         |
| 15,800.00                                     | 8,835.00               | 7,043.15               | 4,989.59               | 146.74            | 36.83          | 0.73                        | 1,014.21                                | 7,818.04      | 3,883.05                   | 3,806.61                    | 76.44                         | 50.797               |                    |         |
| 15,900.00                                     | 8,835.00               | 7,046.68               | 4,989.67               | 148.73            | 36.88          | 0.78                        | 1,010.69                                | 7,818.21      | 3,860.09                   | 3,782.91                    | 77.18                         | 50.014               |                    |         |
| 16,000.00                                     | 8,835.00               | 7,050.22               | 4,989.75               | 150.73            | 36.93          | 0.83                        | 1,007.15                                | 7,818.38      | 3,839.61                   | 3,761.67                    | 77.93                         | 49.268               |                    |         |
| 16,100.00                                     | 8,835.00               | 7,053.78               | 4,989.83               | 152.73            | 36.98          | 0.89                        | 1,003.60                                | 7,818.56      | 3,821.62                   | 3,742.92                    | 78.70                         | 48.559               |                    |         |
| 16,200.00                                     | 8,835.00               | 7,057.36               | 4,989.91               | 154.73            | 37.03          | 0.94                        | 1,000.03                                | 7,818.73      | 3,806.17                   | 3,726.69                    | 79.48                         | 47.887               |                    |         |
| 16,300.00                                     | 8,835.00               | 7,060.95               | 4,990.00               | 156.73            | 37.07          | 1.00                        | 996.43                                  | 7,818.91      | 3,793.30                   | 3,713.02                    | 80.28                         | 47.252               |                    |         |
| 16,400.00                                     | 8,835.00               | 7,064.57               | 4,990.08               | 158.74            | 37.12          | 1.05                        | 992.82                                  | 7,819.08      | 3,783.02                   | 3,701.93                    | 81.09                         | 46.653               |                    |         |
| 16,500.00                                     | 8,835.00               | 7,068.20               | 4,990.16               | 160.74            | 37.17          | 1.11                        | 989.20                                  | 7,819.26      | 3,775.36                   | 3,693.45                    | 81.91                         | 46.091               |                    |         |
| 16,600.00                                     | 8,835.00               | 7,071.86               | 4,990.24               | 162.74            | 37.22          | 1.16                        | 985.55                                  | 7,819.44      | 3,770.33                   | 3,687.58                    | 82.75                         | 45.565               |                    |         |
| 16,700.00                                     | 8,835.00               | 7,075.53               | 4,990.32               | 164.75            | 37.27          | 1.22                        | 981.88                                  | 7,819.62      | 3,767.95                   | 3,684.35                    | 83.59                         | 45.076               |                    |         |
| 16,740.01                                     | 8,835.00               | 7,077.00               | 4,990.35               | 165.55            | 37.29          | 1.24                        | 980.41                                  | 7,819.70      | 3,767.73                   | 3,683.80                    | 83.93                         | 44.890 CC            |                    |         |
| 16,800.00                                     | 8,835.00               | 7,079.22               | 4,990.40               | 166.76            | 37.32          | 1.27                        | 978.19                                  | 7,819.81      | 3,768.21                   | 3,683.76                    | 84.45                         | 44.622 ES            |                    |         |
| 16,900.00                                     | 8,835.00               | 7,082.93               | 4,990.48               | 168.77            | 37.37          | 1.33                        | 974.48                                  | 7,819.99      | 3,771.12                   | 3,685.81                    | 85.31                         | 44.205               |                    |         |
| 17,000.00                                     | 8,835.00               | 7,086.67               | 4,990.56               | 170.77            | 37.42          | 1.39                        | 970.76                                  | 7,820.18      | 3,776.68                   | 3,690.50                    | 86.18                         | 43.824               |                    |         |
| 17,100.00                                     | 8,835.00               | 7,090.42               | 4,990.63               | 172.78            | 37.47          | 1.44                        | 967.01                                  | 7,820.36      | 3,784.86                   | 3,697.82                    | 87.05                         | 43.480               |                    |         |
| 17,200.00                                     | 8,835.00               | 7,094.19               | 4,990.71               | 174.79            | 37.52          | 1.50                        | 963.24                                  | 7,820.55      | 3,795.66                   | 3,707.75                    | 87.92                         | 43.173               |                    |         |
| 17,300.00                                     | 8,835.00               | 7,095.00               | 4,990.73               | 176.81            | 37.53          | 1.51                        | 962.44                                  | 7,820.59      | 3,809.05                   | 3,720.29                    | 88.76                         | 42.914               |                    |         |
| 17,400.00                                     | 8,835.00               | 7,100.92               | 4,990.85               | 178.82            | 37.61          | 1.60                        | 956.53                                  | 7,820.89      | 3,825.01                   | 3,735.37                    | 89.64                         | 42.672               |                    |         |
| 17,500.00                                     | 8,835.00               | 7,104.14               | 4,990.92               | 180.83            | 37.65          | 1.65                        | 953.31                                  | 7,821.05      | 3,843.50                   | 3,753.01                    | 90.48                         | 42.478               |                    |         |
| 17,600.00                                     | 8,835.00               | 7,107.31               | 4,990.98               | 182.84            | 37.70          | 1.70                        | 950.15                                  | 7,821.20      | 3,864.48                   | 3,773.17                    | 91.31                         | 42.321               |                    |         |
| 17,700.00                                     | 8,835.00               | 7,110.41               | 4,991.04               | 184.86            | 37.74          | 1.75                        | 947.05                                  | 7,821.35      | 3,887.92                   | 3,795.79                    | 92.13                         | 42.201               |                    |         |
| 17,800.00                                     | 8,835.00               | 7,113.46               | 4,991.10               | 186.87            | 37.78          | 1.79                        | 944.01                                  | 7,821.49      | 3,913.77                   | 3,820.85                    | 92.92                         | 42.118               |                    |         |
| 17,900.00                                     | 8,835.00               | 7,116.44               | 4,991.16               | 188.89            | 37.82          | 1.84                        | 941.02                                  | 7,821.64      | 3,941.99                   | 3,848.29                    | 93.70                         | 42.072               |                    |         |
| 18,000.00                                     | 8,835.00               | 7,119.38               | 4,991.22               | 190.91            | 37.86          | 1.88                        | 938.09                                  | 7,821.77      | 3,972.52                   | 3,878.08                    | 94.45                         | 42.061 SF            |                    |         |
| 18,100.00                                     | 8,835.00               | 7,122.26               | 4,991.27               | 192.92            | 37.90          | 1.93                        | 935.22                                  | 7,821.91      | 4,005.32                   | 3,910.14                    | 95.17                         | 42.086               |                    |         |
| 18,200.00                                     | 8,835.00               | 7,125.09               | 4,991.33               | 194.94            | 37.94          | 1.97                        | 932.39                                  | 7,822.04      | 4,040.32                   | 3,944.45                    | 95.87                         | 42.145               |                    |         |
| 18,300.00                                     | 8,835.00               | 7,127.86               | 4,991.38               | 196.96            | 37.97          | 2.01                        | 929.62                                  | 7,822.17      | 4,077.47                   | 3,980.93                    | 96.54                         | 42.238               |                    |         |
| 18,400.00                                     | 8,835.00               | 7,130.59               | 4,991.43               | 198.98            | 38.01          | 2.05                        | 926.89                                  | 7,822.29      | 4,116.71                   | 4,019.53                    | 97.17                         | 42.364               |                    |         |
| 18,500.00                                     | 8,835.00               | 7,133.27               | 4,991.48               | 201.00            | 38.05          | 2.10                        | 924.22                                  | 7,822.41      | 4,157.98                   | 4,060.20                    | 97.78                         | 42.522               |                    |         |
| 18,600.00                                     | 8,835.00               | 7,135.90               | 4,991.53               | 203.02            | 38.08          | 2.14                        | 921.59                                  | 7,822.53      | 4,201.23                   | 4,102.87                    | 98.36                         | 42.712               |                    |         |
| 18,700.00                                     | 8,835.00               | 7,138.49               | 4,991.57               | 205.04            | 38.12          | 2.17                        | 919.00                                  | 7,822.65      | 4,246.39                   | 4,147.48                    | 98.91                         | 42.931               |                    |         |
| 18,800.00                                     | 8,835.00               | 7,141.03               | 4,991.62               | 207.06            | 38.15          | 2.21                        | 916.46                                  | 7,822.76      | 4,293.40                   | 4,193.97                    | 99.43                         | 43.180               |                    |         |
| 18,900.00                                     | 8,835.00               | 7,143.53               | 4,991.66               | 209.08            | 38.19          | 2.25                        | 913.97                                  | 7,822.87      | 4,342.20                   | 4,242.29                    | 99.92                         | 43.457               |                    |         |
| 19,000.00                                     | 8,835.00               | 7,145.99               | 4,991.71               | 211.10            | 38.22          | 2.29                        | 911.51                                  | 7,822.98      | 4,392.74                   | 4,292.36                    | 100.38                        | 43.762               |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

|                                |                                |                                                                               |                                |                           |                        |                                  |                                                  |                       |                                 |                                  |                                    |                           |                |
|--------------------------------|--------------------------------|-------------------------------------------------------------------------------|--------------------------------|---------------------------|------------------------|----------------------------------|--------------------------------------------------|-----------------------|---------------------------------|----------------------------------|------------------------------------|---------------------------|----------------|
| <b>Offset Design</b>           |                                | Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 5H - Wellbore #1 - Wellbore #1 |                                |                           |                        |                                  |                                                  |                       |                                 |                                  |                                    | <b>Offset Site Error:</b> | 5.00 ft        |
| <b>Survey Program:</b>         |                                | 233-GYRO-NS-CT, 4541-MWD+HDGM                                                 |                                |                           |                        |                                  |                                                  |                       |                                 |                                  |                                    | <b>Offset Well Error:</b> | 0.50 ft        |
| <b>Reference</b>               |                                | <b>Offset</b>                                                                 |                                | <b>Semi Major Axis</b>    |                        |                                  | <b>Distance</b>                                  |                       |                                 |                                  |                                    |                           | <b>Warning</b> |
| <b>Measured Depth<br/>(ft)</b> | <b>Vertical Depth<br/>(ft)</b> | <b>Measured Depth<br/>(ft)</b>                                                | <b>Vertical Depth<br/>(ft)</b> | <b>Reference<br/>(ft)</b> | <b>Offset<br/>(ft)</b> | <b>Highside Toolface<br/>(°)</b> | <b>Offset Wellbore Centre<br/>+N/-S<br/>(ft)</b> | <b>+E/-W<br/>(ft)</b> | <b>Between Centres<br/>(ft)</b> | <b>Between Ellipses<br/>(ft)</b> | <b>Minimum Separation<br/>(ft)</b> | <b>Separation Factor</b>  |                |
| 19,100.00                      | 8,835.00                       | 7,148.41                                                                      | 4,991.75                       | 213.12                    | 38.25                  | 2.33                             | 909.10                                           | 7,823.08              | 4,444.95                        | 4,344.14                         | 100.81                             | 44.092                    |                |
| 19,200.00                      | 8,835.00                       | 7,150.78                                                                      | 4,991.79                       | 215.15                    | 38.28                  | 2.36                             | 906.72                                           | 7,823.18              | 4,498.77                        | 4,397.56                         | 101.21                             | 44.448                    |                |
| 19,308.27                      | 8,835.00                       | 7,153.31                                                                      | 4,991.83                       | 217.34                    | 38.32                  | 2.40                             | 904.20                                           | 7,823.29              | 4,558.81                        | 4,457.18                         | 101.62                             | 44.861                    |                |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDCS Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                             |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 81-GYRO-NS, 7138-MWD+IGRF |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.00 ft |
| Reference                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                                      | 0.00                | 0.00                | 0.00                | 0.50            | 5.00        | 69.70                 | 3,114.34                          | 8,421.08   | 8,978.81             |                       |                         |                   |                    |         |
| 100.00                                    | 100.00              | 33.10               | 33.10               | 0.52            | 5.00        | 69.70                 | 3,114.29                          | 8,421.08   | 8,978.50             | 8,972.98              | 5.52                    | 1,627.153         |                    |         |
| 200.00                                    | 200.00              | 140.30              | 140.30              | 0.70            | 5.01        | 69.71                 | 3,113.68                          | 8,421.14   | 8,978.35             | 8,972.64              | 5.71                    | 1,571.984         |                    |         |
| 284.50                                    | 284.50              | 211.31              | 211.30              | 0.94            | 5.03        | 69.71                 | 3,113.39                          | 8,421.17   | 8,978.27             | 8,972.30              | 5.97                    | 1,503.778         |                    |         |
| 300.00                                    | 300.00              | 222.86              | 222.86              | 0.99            | 5.04        | 69.71                 | 3,113.38                          | 8,421.18   | 8,978.27             | 8,972.25              | 6.02                    | 1,490.776         |                    |         |
| 400.00                                    | 400.00              | 303.42              | 303.42              | 1.31            | 5.08        | 69.71                 | 3,113.65                          | 8,421.23   | 8,978.44             | 8,972.06              | 6.39                    | 1,406.146         |                    |         |
| 500.00                                    | 500.00              | 397.47              | 397.47              | 1.65            | 5.14        | 69.71                 | 3,114.27                          | 8,421.31   | 8,978.76             | 8,971.97              | 6.79                    | 1,322.546         |                    |         |
| 600.00                                    | 600.00              | 496.76              | 496.76              | 1.99            | 5.23        | 69.70                 | 3,115.03                          | 8,421.37   | 8,979.08             | 8,971.85              | 7.23                    | 1,242.670         |                    |         |
| 700.00                                    | 700.00              | 589.76              | 589.75              | 2.34            | 5.34        | 69.70                 | 3,115.81                          | 8,421.45   | 8,979.44             | 8,971.76              | 7.68                    | 1,169.245         |                    |         |
| 800.00                                    | 800.00              | 681.17              | 681.16              | 2.69            | 5.46        | 69.69                 | 3,116.69                          | 8,421.57   | 8,979.91             | 8,971.75              | 8.15                    | 1,101.631         |                    |         |
| 900.00                                    | 900.00              | 778.02              | 778.00              | 3.04            | 5.61        | 69.69                 | 3,117.77                          | 8,421.73   | 8,980.44             | 8,971.79              | 8.65                    | 1,038.292         |                    |         |
| 1,000.00                                  | 1,000.00            | 886.30              | 886.26              | 3.40            | 5.79        | 69.68                 | 3,119.21                          | 8,421.79   | 8,980.96             | 8,971.77              | 9.18                    | 977.827           |                    |         |
| 1,100.00                                  | 1,100.00            | 974.56              | 974.52              | 3.75            | 5.95        | 69.67                 | 3,120.48                          | 8,421.76   | 8,981.44             | 8,971.73              | 9.70                    | 925.814           |                    |         |
| 1,200.00                                  | 1,200.00            | 1,057.10            | 1,057.05            | 4.11            | 6.11        | 69.66                 | 3,121.91                          | 8,421.84   | 8,982.13             | 8,971.91              | 10.22                   | 879.048           |                    |         |
| 1,300.00                                  | 1,300.00            | 1,137.35            | 1,137.28            | 4.46            | 6.28        | 69.65                 | 3,123.22                          | 8,422.10   | 8,983.00             | 8,972.26              | 10.74                   | 836.442           |                    |         |
| 1,400.00                                  | 1,400.00            | 1,224.69            | 1,224.61            | 4.82            | 6.47        | 69.65                 | 3,124.39                          | 8,422.70   | 8,984.11             | 8,972.82              | 11.29                   | 796.109           |                    |         |
| 1,500.00                                  | 1,500.00            | 1,391.89            | 1,391.80            | 5.18            | 6.85        | 69.63                 | 3,126.84                          | 8,423.25   | 8,984.96             | 8,972.93              | 12.03                   | 747.017           |                    |         |
| 1,600.00                                  | 1,600.00            | 1,472.00            | 1,471.90            | 5.53            | 7.05        | 69.63                 | 3,128.12                          | 8,423.20   | 8,985.46             | 8,972.88              | 12.58                   | 714.315           |                    |         |
| 1,700.00                                  | 1,700.00            | 1,543.04            | 1,542.93            | 5.89            | 7.23        | 69.62                 | 3,129.29                          | 8,423.36   | 8,986.24             | 8,973.12              | 13.11                   | 685.278           |                    |         |
| 1,800.00                                  | 1,800.00            | 1,617.31            | 1,617.19            | 6.25            | 7.42        | 69.61                 | 3,130.47                          | 8,423.78   | 8,987.32             | 8,973.66              | 13.66                   | 657.934           |                    |         |
| 1,900.00                                  | 1,900.00            | 1,733.43            | 1,733.29            | 6.61            | 7.72        | 69.60                 | 3,132.27                          | 8,424.65   | 8,988.58             | 8,974.25              | 14.32                   | 627.595           |                    |         |
| 2,000.00                                  | 2,000.00            | 1,852.91            | 1,852.75            | 6.96            | 8.05        | 69.59                 | 3,134.37                          | 8,425.01   | 8,989.47             | 8,974.47              | 15.00                   | 599.182           |                    |         |
| 2,100.00                                  | 2,099.99            | 1,934.76            | 1,934.59            | 7.32            | 8.27        | 82.36                 | 3,135.81                          | 8,425.29   | 8,990.29             | 8,974.70              | 15.59                   | 576.817           |                    |         |
| 2,200.00                                  | 2,199.96            | 2,043.17            | 2,042.97            | 7.68            | 8.58        | 82.36                 | 3,137.99                          | 8,425.63   | 8,990.93             | 8,974.68              | 16.25                   | 553.360           |                    |         |
| 2,300.00                                  | 2,299.86            | 2,102.71            | 2,102.50            | 8.04            | 8.75        | 82.37                 | 3,139.14                          | 8,425.95   | 8,991.53             | 8,974.75              | 16.77                   | 536.053           |                    |         |
| 2,400.00                                  | 2,399.68            | 2,251.73            | 2,251.49            | 8.39            | 9.18        | 82.40                 | 3,142.04                          | 8,426.62   | 8,991.81             | 8,974.25              | 17.56                   | 511.980           |                    |         |
| 2,433.12                                  | 2,432.70            | 2,270.06            | 2,269.82            | 8.51            | 9.24        | 82.41                 | 3,142.44                          | 8,426.65   | 8,991.80             | 8,974.07              | 17.73                   | 507.027           |                    |         |
| 2,500.00                                  | 2,499.37            | 2,320.50            | 2,320.24            | 8.75            | 9.39        | 82.43                 | 3,143.58                          | 8,426.89   | 8,991.88             | 8,973.76              | 18.12                   | 496.213           |                    |         |
| 2,600.00                                  | 2,598.90            | 2,378.65            | 2,378.38            | 9.11            | 9.56        | 82.46                 | 3,144.87                          | 8,427.37   | 8,992.10             | 8,973.46              | 18.65                   | 482.178           |                    |         |
| 2,700.00                                  | 2,698.26            | 2,552.42            | 2,552.10            | 9.46            | 10.08       | 82.56                 | 3,148.83                          | 8,428.00   | 8,991.69             | 8,972.16              | 19.53                   | 460.413           |                    |         |
| 2,800.00                                  | 2,797.40            | 2,615.30            | 2,614.96            | 9.82            | 10.28       | 82.61                 | 3,150.43                          | 8,428.11   | 8,991.03             | 8,970.95              | 20.08                   | 447.815           |                    |         |
| 2,900.00                                  | 2,896.30            | 2,695.38            | 2,695.01            | 10.18           | 10.52       | 82.68                 | 3,152.50                          | 8,428.47   | 8,990.45             | 8,969.77              | 20.68                   | 434.731           |                    |         |
| 3,000.00                                  | 2,994.93            | 2,806.21            | 2,805.80            | 10.54           | 10.87       | 82.79                 | 3,155.51                          | 8,428.98   | 8,989.71             | 8,968.33              | 21.38                   | 420.427           |                    |         |
| 3,100.00                                  | 3,093.26            | 2,886.00            | 2,885.56            | 10.90           | 11.11       | 82.88                 | 3,157.70                          | 8,429.34   | 8,988.79             | 8,966.80              | 21.99                   | 408.755           |                    |         |
| 3,195.07                                  | 3,186.42            | 2,943.76            | 2,943.30            | 11.24           | 11.30       | 82.95                 | 3,159.21                          | 8,429.81   | 8,988.02             | 8,965.51              | 22.51                   | 399.213           |                    |         |
| 3,200.00                                  | 3,191.25            | 2,946.49            | 2,946.03            | 11.26           | 11.30       | 82.95                 | 3,159.27                          | 8,429.84   | 8,987.99             | 8,965.45              | 22.54                   | 398.745           |                    |         |
| 3,300.00                                  | 3,289.08            | 3,108.50            | 3,107.97            | 11.62           | 11.82       | 83.14                 | 3,163.36                          | 8,431.15   | 8,987.10             | 8,963.68              | 23.42                   | 383.787           |                    |         |
| 3,400.00                                  | 3,386.91            | 3,186.50            | 3,185.95            | 11.98           | 12.07       | 83.23                 | 3,165.38                          | 8,431.52   | 8,985.94             | 8,961.91              | 24.03                   | 373.949           |                    |         |
| 3,500.00                                  | 3,484.74            | 3,270.82            | 3,270.24            | 12.35           | 12.34       | 83.33                 | 3,167.58                          | 8,432.09   | 8,985.00             | 8,960.33              | 24.67                   | 364.268           |                    |         |
| 3,600.00                                  | 3,582.58            | 3,364.44            | 3,363.82            | 12.72           | 12.64       | 83.44                 | 3,170.06                          | 8,432.80   | 8,984.19             | 8,958.86              | 25.33                   | 354.619           |                    |         |
| 3,700.00                                  | 3,680.41            | 3,467.38            | 3,466.73            | 13.09           | 12.97       | 83.56                 | 3,172.74                          | 8,433.63   | 8,983.45             | 8,957.42              | 26.04                   | 345.030           |                    |         |
| 3,800.00                                  | 3,778.24            | 3,685.69            | 3,684.98            | 13.46           | 13.68       | 83.82                 | 3,176.88                          | 8,433.16   | 8,981.00             | 8,953.88              | 27.11                   | 331.221           |                    |         |
| 3,900.00                                  | 3,876.08            | 3,731.50            | 3,730.79            | 13.83           | 13.83       | 83.89                 | 3,176.67                          | 8,433.66   | 8,979.43             | 8,951.79              | 27.64                   | 324.913           |                    |         |
| 4,000.00                                  | 3,973.91            | 4,000.00            | 3,800.01            | 14.21           | 14.70       | 83.98                 | 3,177.08                          | 8,434.34   | 8,978.29             | 8,949.40              | 28.89                   | 310.803           |                    |         |
| 4,100.00                                  | 4,071.74            | 3,881.71            | 3,880.97            | 14.58           | 14.32       | 84.07                 | 3,178.47                          | 8,434.76   | 8,977.18             | 8,948.31              | 28.87                   | 310.901           |                    |         |
| 4,200.00                                  | 4,169.57            | 3,940.61            | 3,939.85            | 14.96           | 14.51       | 84.15                 | 3,179.65                          | 8,435.35   | 8,976.61             | 8,947.16              | 29.44                   | 304.883           |                    |         |
| 4,300.00                                  | 4,267.41            | 4,027.81            | 4,027.03            | 15.33           | 14.80       | 84.25                 | 3,181.13                          | 8,436.54   | 8,976.34             | 8,946.24              | 30.11                   | 298.160           |                    |         |
| 4,400.00                                  | 4,365.24            | 4,184.22            | 4,183.42            | 15.71           | 15.31       | 84.45                 | 3,182.77                          | 8,438.64   | 8,975.94             | 8,944.94              | 31.00                   | 289.545           |                    |         |
| 4,500.00                                  | 4,463.07            | 4,260.68            | 4,259.87            | 16.09           | 15.57       | 84.56                 | 3,182.43                          | 8,439.77   | 8,975.22             | 8,943.59              | 31.63                   | 283.750           |                    |         |
| 4,600.00                                  | 4,560.90            | 4,340.15            | 4,339.33            | 16.47           | 15.83       | 84.66                 | 3,183.13                          | 8,440.88   | 8,974.85             | 8,942.58              | 32.27                   | 278.096           |                    |         |
| 4,700.00                                  | 4,658.74            | 4,700.00            | 4,623.23            | 16.85           | 17.03       | 84.90                 | 3,184.42                          | 8,443.16   | 8,974.54             | 8,940.69              | 33.85                   | 265.123           |                    |         |
| 4,800.00                                  | 4,756.57            | 4,622.10            | 4,621.24            | 17.23           | 16.77       | 85.02                 | 3,185.67                          | 8,443.29   | 8,973.22             | 8,939.24              | 33.97                   | 264.145           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                             |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 81-GYRO-NS, 7138-MWD+IGRF |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.00 ft |
| Reference                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 4,900.00                                  | 4,854.40            | 4,671.00            | 4,670.14            | 17.61           | 16.93       | 85.09                 | 3,186.17                          | 8,443.69   | 8,972.44             | 8,937.93              | 34.51                   | 259.962           |                    |         |
| 5,000.00                                  | 4,952.23            | 4,765.98            | 4,765.11            | 17.99           | 17.25       | 85.21                 | 3,187.15                          | 8,444.76   | 8,972.06             | 8,936.84              | 35.21                   | 254.792           |                    |         |
| 5,100.00                                  | 5,050.07            | 4,859.84            | 4,858.96            | 18.37           | 17.56       | 85.33                 | 3,188.29                          | 8,445.68   | 8,971.63             | 8,935.72              | 35.91                   | 249.841           |                    |         |
| 5,200.00                                  | 5,147.90            | 10,290.19           | 7,778.19            | 18.75           | 59.52       | 107.09                | 376.18                            | 8,420.17   | 8,958.45             | 8,883.22              | 75.23                   | 119.083           |                    |         |
| 5,300.00                                  | 5,245.73            | 10,279.66           | 7,777.90            | 19.14           | 59.34       | 107.03                | 386.70                            | 8,420.45   | 8,934.15             | 8,858.52              | 75.63                   | 118.127           |                    |         |
| 5,400.00                                  | 5,343.56            | 10,268.83           | 7,777.63            | 19.52           | 59.15       | 106.95                | 397.52                            | 8,420.73   | 8,910.88             | 8,834.85              | 76.03                   | 117.209           |                    |         |
| 5,500.00                                  | 5,441.40            | 10,257.69           | 7,777.39            | 19.90           | 58.96       | 106.88                | 408.66                            | 8,421.03   | 8,888.65             | 8,812.24              | 76.41                   | 116.332           |                    |         |
| 5,600.00                                  | 5,539.23            | 10,242.00           | 7,777.09            | 20.29           | 58.69       | 106.78                | 424.34                            | 8,421.45   | 8,867.47             | 8,790.76              | 76.71                   | 115.599           |                    |         |
| 5,700.00                                  | 5,637.06            | 10,242.00           | 7,777.09            | 20.67           | 58.69       | 106.78                | 424.34                            | 8,421.45   | 8,847.35             | 8,770.09              | 77.27                   | 114.505           |                    |         |
| 5,800.00                                  | 5,734.90            | 10,225.28           | 7,776.83            | 21.05           | 58.40       | 106.67                | 441.05                            | 8,421.90   | 8,828.29             | 8,750.75              | 77.54                   | 113.856           |                    |         |
| 5,900.00                                  | 5,832.73            | 10,214.79           | 7,776.70            | 21.44           | 58.22       | 106.60                | 451.54                            | 8,422.19   | 8,810.31             | 8,732.40              | 77.91                   | 113.084           |                    |         |
| 6,000.00                                  | 5,930.56            | 10,204.08           | 7,776.58            | 21.83           | 58.04       | 106.53                | 462.24                            | 8,422.49   | 8,793.40             | 8,715.13              | 78.27                   | 112.348           |                    |         |
| 6,100.00                                  | 6,028.39            | 10,193.14           | 7,776.49            | 22.21           | 57.85       | 106.46                | 473.18                            | 8,422.81   | 8,777.57             | 8,698.96              | 78.62                   | 111.647           |                    |         |
| 6,200.00                                  | 6,126.23            | 9,878.66            | 7,771.74            | 22.60           | 52.49       | 104.42                | 787.55                            | 8,427.24   | 8,762.76             | 8,688.87              | 73.89                   | 118.586           |                    |         |
| 6,300.00                                  | 6,224.06            | 9,855.44            | 7,771.06            | 22.98           | 52.10       | 104.27                | 810.77                            | 8,427.20   | 8,748.46             | 8,674.44              | 74.02                   | 118.189           |                    |         |
| 6,400.00                                  | 6,321.89            | 9,834.50            | 7,770.45            | 23.37           | 51.75       | 104.14                | 831.69                            | 8,427.16   | 8,735.24             | 8,661.06              | 74.18                   | 117.756           |                    |         |
| 6,500.00                                  | 6,419.72            | 9,813.50            | 7,769.85            | 23.76           | 51.40       | 104.00                | 852.69                            | 8,427.11   | 8,723.10             | 8,648.77              | 74.33                   | 117.353           |                    |         |
| 6,600.00                                  | 6,517.56            | 9,792.43            | 7,769.25            | 24.14           | 51.05       | 103.86                | 873.75                            | 8,427.05   | 8,712.06             | 8,637.58              | 74.47                   | 116.981           |                    |         |
| 6,700.00                                  | 6,615.39            | 9,771.40            | 7,768.65            | 24.53           | 50.69       | 103.72                | 894.77                            | 8,426.97   | 8,702.10             | 8,627.49              | 74.61                   | 116.635           |                    |         |
| 6,800.00                                  | 6,713.22            | 9,741.38            | 7,767.82            | 24.92           | 50.20       | 103.53                | 924.78                            | 8,426.84   | 8,693.23             | 8,618.64              | 74.59                   | 116.545           |                    |         |
| 6,900.00                                  | 6,811.05            | 9,711.07            | 7,767.01            | 25.30           | 49.69       | 103.33                | 955.08                            | 8,426.66   | 8,685.45             | 8,610.89              | 74.56                   | 116.489           |                    |         |
| 7,000.00                                  | 6,908.89            | 9,680.46            | 7,766.21            | 25.69           | 49.18       | 103.13                | 985.67                            | 8,426.43   | 8,678.75             | 8,604.23              | 74.52                   | 116.468           |                    |         |
| 7,100.00                                  | 7,006.72            | 9,658.99            | 7,765.66            | 26.08           | 48.83       | 102.99                | 1,007.13                          | 8,426.24   | 8,673.14             | 8,598.52              | 74.62                   | 116.235           |                    |         |
| 7,200.00                                  | 7,104.55            | 9,638.70            | 7,765.13            | 26.47           | 48.50       | 102.86                | 1,027.42                          | 8,426.06   | 8,668.64             | 8,593.91              | 74.73                   | 115.998           |                    |         |
| 7,216.87                                  | 7,121.05            | 9,635.28            | 7,765.05            | 26.53           | 48.44       | 102.84                | 1,030.84                          | 8,426.03   | 8,667.99             | 8,593.24              | 74.75                   | 115.961           |                    |         |
| 7,300.00                                  | 7,202.57            | 9,619.40            | 7,764.64            | 26.85           | 48.18       | 102.69                | 1,046.71                          | 8,425.88   | 8,665.05             | 8,590.20              | 74.85                   | 115.765           |                    |         |
| 7,400.00                                  | 7,301.06            | 9,602.96            | 7,764.22            | 27.23           | 47.91       | 102.54                | 1,063.15                          | 8,425.73   | 8,662.02             | 8,587.01              | 75.00                   | 115.489           |                    |         |
| 7,500.00                                  | 7,399.97            | 9,589.41            | 7,763.87            | 27.61           | 47.69       | 102.41                | 1,076.69                          | 8,425.59   | 8,659.54             | 8,584.35              | 75.19                   | 115.170           |                    |         |
| 7,600.00                                  | 7,499.23            | 9,582.00            | 7,763.68            | 27.98           | 47.57       | 102.34                | 1,084.10                          | 8,425.52   | 8,657.65             | 8,582.19              | 75.46                   | 114.729           |                    |         |
| 7,700.00                                  | 7,598.77            | 9,582.00            | 7,763.68            | 28.34           | 47.57       | 102.32                | 1,084.10                          | 8,425.52   | 8,656.35             | 8,580.50              | 75.84                   | 114.137           |                    |         |
| 7,800.00                                  | 7,698.53            | 9,582.00            | 7,763.68            | 28.70           | 47.57       | 102.31                | 1,084.10                          | 8,425.52   | 8,655.64             | 8,579.43              | 76.21                   | 113.582           |                    |         |
| 7,868.25                                  | 7,766.70            | 9,582.00            | 7,763.68            | 28.93           | 47.57       | 102.31                | 1,084.10                          | 8,425.52   | 8,655.50             | 8,579.05              | 76.45                   | 113.224           |                    |         |
| 7,900.00                                  | 7,798.44            | 9,582.00            | 7,763.68            | 29.05           | 47.57       | 102.31                | 1,084.10                          | 8,425.52   | 8,655.53             | 8,578.97              | 76.56                   | 113.061           |                    |         |
| 8,000.00                                  | 7,898.42            | 9,582.00            | 7,763.68            | 29.39           | 47.57       | 102.31                | 1,084.10                          | 8,425.52   | 8,656.02             | 8,579.13              | 76.89                   | 112.575           |                    |         |
| 8,013.58                                  | 7,912.00            | 9,582.00            | 7,763.68            | 29.43           | 47.57       | 89.54                 | 1,084.10                          | 8,425.52   | 8,656.13             | 8,579.20              | 76.94                   | 112.512           |                    |         |
| 8,100.00                                  | 7,998.42            | 9,582.00            | 7,763.68            | 29.73           | 47.57       | 89.54                 | 1,084.10                          | 8,425.52   | 8,657.31             | 8,580.10              | 77.21                   | 112.122           |                    |         |
| 8,200.00                                  | 8,098.42            | 9,582.00            | 7,763.68            | 30.07           | 47.57       | 89.54                 | 1,084.10                          | 8,425.52   | 8,659.76             | 8,582.23              | 77.53                   | 111.699           |                    |         |
| 8,300.00                                  | 8,198.42            | 9,582.00            | 7,763.68            | 30.41           | 47.57       | 89.54                 | 1,084.10                          | 8,425.52   | 8,663.35             | 8,585.52              | 77.83                   | 111.306           |                    |         |
| 8,363.62                                  | 8,262.04            | 9,582.00            | 7,763.68            | 30.62           | 47.57       | 89.54                 | 1,084.10                          | 8,425.52   | 8,666.24             | 8,588.22              | 78.02                   | 111.072           |                    |         |
| 8,400.00                                  | 8,298.40            | 9,582.00            | 7,763.68            | 30.75           | 47.57       | -0.12                 | 1,084.10                          | 8,425.52   | 8,666.95             | 8,588.82              | 78.13                   | 110.933           |                    |         |
| 8,450.00                                  | 8,348.10            | 9,582.00            | 7,763.68            | 30.91           | 47.57       | -0.12                 | 1,084.10                          | 8,425.52   | 8,664.40             | 8,586.14              | 78.26                   | 110.710           |                    |         |
| 8,500.00                                  | 8,397.14            | 9,582.00            | 7,763.68            | 31.07           | 47.57       | -0.12                 | 1,084.10                          | 8,425.52   | 8,657.80             | 8,579.40              | 78.39                   | 110.443           |                    |         |
| 8,550.00                                  | 8,445.15            | 9,582.00            | 7,763.68            | 31.23           | 47.57       | -0.13                 | 1,084.10                          | 8,425.52   | 8,647.18             | 8,568.66              | 78.51                   | 110.137           |                    |         |
| 8,600.00                                  | 8,491.77            | 9,583.13            | 7,763.71            | 31.38           | 47.58       | -0.12                 | 1,082.97                          | 8,425.53   | 8,632.61             | 8,553.96              | 78.64                   | 109.768           |                    |         |
| 8,650.00                                  | 8,536.65            | 9,584.54            | 7,763.75            | 31.52           | 47.61       | -0.12                 | 1,081.55                          | 8,425.55   | 8,614.18             | 8,535.41              | 78.77                   | 109.359           |                    |         |
| 8,700.00                                  | 8,579.43            | 9,585.92            | 7,763.78            | 31.66           | 47.63       | -0.11                 | 1,080.18                          | 8,425.56   | 8,592.01             | 8,513.13              | 78.88                   | 108.920           |                    |         |
| 8,750.00                                  | 8,619.80            | 9,587.23            | 7,763.81            | 31.80           | 47.65       | -0.11                 | 1,078.87                          | 8,425.57   | 8,566.24             | 8,487.25              | 78.99                   | 108.453           |                    |         |
| 8,800.00                                  | 8,657.44            | 9,588.48            | 7,763.85            | 31.93           | 47.67       | -0.10                 | 1,077.62                          | 8,425.59   | 8,537.03             | 8,457.95              | 79.08                   | 107.960           |                    |         |
| 8,850.00                                  | 8,692.08            | 9,589.66            | 7,763.88            | 32.06           | 47.69       | -0.10                 | 1,076.44                          | 8,425.60   | 8,504.57             | 8,425.42              | 79.15                   | 107.445           |                    |         |
| 8,900.00                                  | 8,723.44            | 9,590.75            | 7,763.90            | 32.19           | 47.71       | -0.10                 | 1,075.35                          | 8,425.61   | 8,469.07             | 8,389.85              | 79.22                   | 106.910           |                    |         |
| 8,950.00                                  | 8,751.29            | 9,591.75            | 7,763.93            | 32.34           | 47.73       | -0.10                 | 1,074.36                          | 8,425.62   | 8,430.77             | 8,351.50              | 79.27                   | 106.357           |                    |         |
| 9,000.00                                  | 8,775.42            | 9,592.64            | 7,763.95            | 32.50           | 47.74       | -0.10                 | 1,073.46                          | 8,425.63   | 8,389.92             | 8,310.61              | 79.31                   | 105.788           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                             |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |         | Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 8H - Original Hole - Actuals |         | Offset Site Error: 5.00 ft |  |
|-------------------------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|---------|-----------------------------------------------------------------------------|---------|----------------------------|--|
| Survey Program: 81-GYRO-NS, 7138-MWD+IGRF |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |         | Offset Well Error: 0.00 ft                                                  |         |                            |  |
| Reference                                 |                | Offset         |                | Semi Major Axis |        |                   | Distance               |                 |                  |                    |                   |         |                                                                             | Warning |                            |  |
| Measured Depth                            | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor |         |                                                                             |         |                            |  |
| (ft)                                      | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft)      | (ft)             | (ft)               | (ft)              |         |                                                                             |         |                            |  |
| 9,050.00                                  | 8,795.64       | 9,593.43       | 7,763.97       | 32.67           | 47.75  | -0.10             | 1,072.67               | 8,425.63        | 8,346.79         | 8,267.45           | 79.34             | 105.205 |                                                                             |         |                            |  |
| 9,100.00                                  | 8,811.80       | 9,594.11       | 7,763.99       | 32.87           | 47.76  | -0.11             | 1,071.99               | 8,425.64        | 8,301.69         | 8,222.33           | 79.36             | 104.610 |                                                                             |         |                            |  |
| 9,150.00                                  | 8,823.77       | 9,594.67       | 7,764.01       | 33.10           | 47.77  | -0.13             | 1,071.43               | 8,425.65        | 8,254.92         | 8,175.55           | 79.37             | 104.005 |                                                                             |         |                            |  |
| 9,200.00                                  | 8,831.47       | 9,595.11       | 7,764.02       | 33.34           | 47.78  | -0.16             | 1,070.99               | 8,425.65        | 8,206.82         | 8,127.44           | 79.38             | 103.392 |                                                                             |         |                            |  |
| 9,250.00                                  | 8,834.84       | 9,595.42       | 7,764.02       | 33.60           | 47.79  | -0.25             | 1,070.68               | 8,425.65        | 8,157.73         | 8,078.35           | 79.38             | 102.772 |                                                                             |         |                            |  |
| 9,263.62                                  | 8,835.00       | 9,595.48       | 7,764.03       | 33.67           | 47.79  | -0.29             | 1,070.62               | 8,425.65        | 8,144.23         | 8,064.85           | 79.38             | 102.601 |                                                                             |         |                            |  |
| 9,300.00                                  | 8,835.00       | 9,595.64       | 7,764.03       | 33.88           | 47.79  | -0.28             | 1,070.46               | 8,425.66        | 8,108.13         | 8,028.75           | 79.38             | 102.149 |                                                                             |         |                            |  |
| 9,400.00                                  | 8,835.00       | 9,596.07       | 7,764.04       | 34.53           | 47.80  | -0.26             | 1,070.03               | 8,425.66        | 8,008.90         | 7,929.53           | 79.37             | 100.908 |                                                                             |         |                            |  |
| 9,500.00                                  | 8,835.00       | 9,596.50       | 7,764.05       | 35.30           | 47.80  | -0.23             | 1,069.61               | 8,425.66        | 7,909.68         | 7,830.32           | 79.36             | 99.665  |                                                                             |         |                            |  |
| 9,600.00                                  | 8,835.00       | 9,596.92       | 7,764.06       | 36.17           | 47.81  | -0.21             | 1,069.18               | 8,425.67        | 7,810.49         | 7,731.14           | 79.36             | 98.422  |                                                                             |         |                            |  |
| 9,700.00                                  | 8,835.00       | 9,597.35       | 7,764.07       | 37.13           | 47.82  | -0.18             | 1,068.76               | 8,425.67        | 7,711.32         | 7,631.97           | 79.35             | 97.178  |                                                                             |         |                            |  |
| 9,800.00                                  | 8,835.00       | 9,597.77       | 7,764.08       | 38.18           | 47.82  | -0.16             | 1,068.33               | 8,425.68        | 7,612.17         | 7,532.83           | 79.35             | 95.934  |                                                                             |         |                            |  |
| 9,900.00                                  | 8,835.00       | 9,598.19       | 7,764.10       | 39.31           | 47.83  | -0.13             | 1,067.91               | 8,425.68        | 7,513.05         | 7,433.70           | 79.34             | 94.689  |                                                                             |         |                            |  |
| 10,000.00                                 | 8,835.00       | 9,598.61       | 7,764.11       | 40.51           | 47.84  | -0.11             | 1,067.49               | 8,425.68        | 7,413.95         | 7,334.60           | 79.34             | 93.443  |                                                                             |         |                            |  |
| 10,100.00                                 | 8,835.00       | 9,599.03       | 7,764.12       | 41.78           | 47.85  | -0.09             | 1,067.07               | 8,425.69        | 7,314.87         | 7,235.53           | 79.34             | 92.197  |                                                                             |         |                            |  |
| 10,200.00                                 | 8,835.00       | 9,599.45       | 7,764.13       | 43.10           | 47.85  | -0.06             | 1,066.66               | 8,425.69        | 7,215.82         | 7,136.48           | 79.34             | 90.951  |                                                                             |         |                            |  |
| 10,300.00                                 | 8,835.00       | 9,599.87       | 7,764.14       | 44.49           | 47.86  | -0.04             | 1,066.24               | 8,425.70        | 7,116.79         | 7,037.45           | 79.34             | 89.704  |                                                                             |         |                            |  |
| 10,400.00                                 | 8,835.00       | 9,600.28       | 7,764.15       | 45.92           | 47.87  | -0.01             | 1,065.82               | 8,425.70        | 7,017.79         | 6,938.45           | 79.34             | 88.456  |                                                                             |         |                            |  |
| 10,500.00                                 | 8,835.00       | 9,600.69       | 7,764.16       | 47.39           | 47.87  | 0.01              | 1,065.41               | 8,425.70        | 6,918.82         | 6,839.48           | 79.34             | 87.209  |                                                                             |         |                            |  |
| 10,600.00                                 | 8,835.00       | 9,601.11       | 7,764.17       | 48.91           | 47.88  | 0.03              | 1,065.00               | 8,425.71        | 6,819.88         | 6,740.54           | 79.34             | 85.961  |                                                                             |         |                            |  |
| 10,700.00                                 | 8,835.00       | 9,601.52       | 7,764.18       | 50.47           | 47.89  | 0.06              | 1,064.59               | 8,425.71        | 6,720.97         | 6,641.63           | 79.34             | 84.712  |                                                                             |         |                            |  |
| 10,800.00                                 | 8,835.00       | 9,601.93       | 7,764.19       | 52.06           | 47.89  | 0.08              | 1,064.18               | 8,425.72        | 6,622.10         | 6,542.76           | 79.34             | 83.464  |                                                                             |         |                            |  |
| 10,900.00                                 | 8,835.00       | 9,602.33       | 7,764.20       | 53.68           | 47.90  | 0.10              | 1,063.77               | 8,425.72        | 6,523.26         | 6,443.91           | 79.34             | 82.215  |                                                                             |         |                            |  |
| 11,000.00                                 | 8,835.00       | 9,602.74       | 7,764.21       | 55.32           | 47.91  | 0.13              | 1,063.36               | 8,425.72        | 6,424.45         | 6,345.10           | 79.35             | 80.967  |                                                                             |         |                            |  |
| 11,100.00                                 | 8,835.00       | 9,603.15       | 7,764.22       | 57.00           | 47.91  | 0.15              | 1,062.96               | 8,425.73        | 6,325.68         | 6,246.33           | 79.35             | 79.718  |                                                                             |         |                            |  |
| 11,200.00                                 | 8,835.00       | 9,603.55       | 7,764.23       | 58.70           | 47.92  | 0.17              | 1,062.55               | 8,425.73        | 6,226.95         | 6,147.60           | 79.36             | 78.469  |                                                                             |         |                            |  |
| 11,300.00                                 | 8,835.00       | 9,603.95       | 7,764.24       | 60.41           | 47.93  | 0.20              | 1,062.15               | 8,425.74        | 6,128.27         | 6,048.91           | 79.36             | 77.220  |                                                                             |         |                            |  |
| 11,400.00                                 | 8,835.00       | 9,604.36       | 7,764.25       | 62.15           | 47.93  | 0.22              | 1,061.75               | 8,425.74        | 6,029.62         | 5,950.26           | 79.37             | 75.971  |                                                                             |         |                            |  |
| 11,500.00                                 | 8,835.00       | 9,604.76       | 7,764.26       | 63.91           | 47.94  | 0.24              | 1,061.35               | 8,425.74        | 5,931.02         | 5,851.65           | 79.37             | 74.723  |                                                                             |         |                            |  |
| 11,600.00                                 | 8,835.00       | 9,605.15       | 7,764.27       | 65.69           | 47.95  | 0.27              | 1,060.95               | 8,425.75        | 5,832.47         | 5,753.09           | 79.38             | 73.474  |                                                                             |         |                            |  |
| 11,700.00                                 | 8,835.00       | 9,605.55       | 7,764.28       | 67.47           | 47.95  | 0.29              | 1,060.55               | 8,425.75        | 5,733.97         | 5,654.58           | 79.39             | 72.226  |                                                                             |         |                            |  |
| 11,800.00                                 | 8,835.00       | 9,605.95       | 7,764.29       | 69.28           | 47.96  | 0.31              | 1,060.16               | 8,425.75        | 5,635.52         | 5,556.12           | 79.40             | 70.978  |                                                                             |         |                            |  |
| 11,900.00                                 | 8,835.00       | 9,606.34       | 7,764.30       | 71.09           | 47.97  | 0.33              | 1,059.76               | 8,425.76        | 5,537.13         | 5,457.72           | 79.41             | 69.730  |                                                                             |         |                            |  |
| 12,000.00                                 | 8,835.00       | 9,606.74       | 7,764.31       | 72.92           | 47.97  | 0.36              | 1,059.37               | 8,425.76        | 5,438.80         | 5,359.38           | 79.42             | 68.483  |                                                                             |         |                            |  |
| 12,100.00                                 | 8,835.00       | 9,607.13       | 7,764.32       | 74.76           | 47.98  | 0.38              | 1,058.98               | 8,425.77        | 5,340.52         | 5,261.09           | 79.43             | 67.236  |                                                                             |         |                            |  |
| 12,200.00                                 | 8,835.00       | 9,607.52       | 7,764.33       | 76.61           | 47.98  | 0.40              | 1,058.58               | 8,425.77        | 5,242.32         | 5,162.87           | 79.44             | 65.990  |                                                                             |         |                            |  |
| 12,300.00                                 | 8,835.00       | 9,607.91       | 7,764.34       | 78.47           | 47.99  | 0.42              | 1,058.19               | 8,425.77        | 5,144.18         | 5,064.72           | 79.45             | 64.744  |                                                                             |         |                            |  |
| 12,400.00                                 | 8,835.00       | 9,608.30       | 7,764.35       | 80.34           | 48.00  | 0.45              | 1,057.81               | 8,425.78        | 5,046.11         | 4,966.65           | 79.47             | 63.498  |                                                                             |         |                            |  |
| 12,500.00                                 | 8,835.00       | 9,608.69       | 7,764.36       | 82.22           | 48.00  | 0.47              | 1,057.42               | 8,425.78        | 4,948.13         | 4,868.64           | 79.48             | 62.253  |                                                                             |         |                            |  |
| 12,600.00                                 | 8,835.00       | 9,609.08       | 7,764.37       | 84.11           | 48.01  | 0.49              | 1,057.03               | 8,425.78        | 4,850.22         | 4,770.72           | 79.50             | 61.009  |                                                                             |         |                            |  |
| 12,700.00                                 | 8,835.00       | 9,609.46       | 7,764.38       | 86.00           | 48.02  | 0.51              | 1,056.65               | 8,425.79        | 4,752.40         | 4,672.89           | 79.52             | 59.766  |                                                                             |         |                            |  |
| 12,800.00                                 | 8,835.00       | 9,609.85       | 7,764.39       | 87.90           | 48.02  | 0.54              | 1,056.26               | 8,425.79        | 4,654.68         | 4,575.14           | 79.54             | 58.523  |                                                                             |         |                            |  |
| 12,900.00                                 | 8,835.00       | 9,610.23       | 7,764.40       | 89.81           | 48.03  | 0.56              | 1,055.88               | 8,425.80        | 4,557.05         | 4,477.49           | 79.56             | 57.281  |                                                                             |         |                            |  |
| 13,000.00                                 | 8,835.00       | 9,610.61       | 7,764.41       | 91.72           | 48.04  | 0.58              | 1,055.50               | 8,425.80        | 4,459.53         | 4,379.95           | 79.58             | 56.040  |                                                                             |         |                            |  |
| 13,100.00                                 | 8,835.00       | 9,610.99       | 7,764.42       | 93.64           | 48.04  | 0.60              | 1,055.12               | 8,425.80        | 4,362.12         | 4,282.52           | 79.60             | 54.799  |                                                                             |         |                            |  |
| 13,200.00                                 | 8,835.00       | 9,611.37       | 7,764.43       | 95.56           | 48.05  | 0.62              | 1,054.74               | 8,425.81        | 4,264.83         | 4,185.20           | 79.63             | 53.560  |                                                                             |         |                            |  |
| 13,300.00                                 | 8,835.00       | 9,611.75       | 7,764.44       | 97.49           | 48.05  | 0.64              | 1,054.36               | 8,425.81        | 4,167.67         | 4,088.02           | 79.65             | 52.322  |                                                                             |         |                            |  |
| 13,400.00                                 | 8,835.00       | 9,612.12       | 7,764.45       | 99.42           | 48.06  | 0.67              | 1,053.98               | 8,425.81        | 4,070.65         | 3,990.96           | 79.68             | 51.085  |                                                                             |         |                            |  |
| 13,500.00                                 | 8,835.00       | 9,612.50       | 7,764.46       | 101.36          | 48.07  | 0.69              | 1,053.61               | 8,425.82        | 3,973.77         | 3,894.05           | 79.72             | 49.849  |                                                                             |         |                            |  |
| 13,600.00                                 | 8,835.00       | 9,612.87       | 7,764.47       | 103.30          | 48.07  | 0.71              | 1,053.23               | 8,425.82        | 3,877.05         | 3,797.30           | 79.75             | 48.615  |                                                                             |         |                            |  |
| 13,700.00                                 | 8,835.00       | 9,613.25       | 7,764.48       | 105.25          | 48.08  | 0.73              | 1,052.86               | 8,425.82        | 3,780.51         | 3,700.72           | 79.79             | 47.381  |                                                                             |         |                            |  |
| 13,800.00                                 | 8,835.00       | 9,613.62       | 7,764.49       | 107.20          | 48.08  | 0.75              | 1,052.49               | 8,425.83        | 3,684.14         | 3,604.31           | 79.83             | 46.150  |                                                                             |         |                            |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                             |                |                |                |                 |        |                   |                              |              |                 |                  |                    |                   | Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 8H - Original Hole - Actuals |         | Offset Site Error: 5.00 ft |  |
|-------------------------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------------|--------------|-----------------|------------------|--------------------|-------------------|-----------------------------------------------------------------------------|---------|----------------------------|--|
| Survey Program: 81-GYRO-NS, 7138-MWD+IGRF |                |                |                |                 |        |                   |                              |              |                 |                  |                    |                   | Offset Well Error: 0.00 ft                                                  |         |                            |  |
| Reference                                 |                | Offset         |                | Semi Major Axis |        |                   | Distance                     |              |                 |                  |                    |                   |                                                                             | Warning |                            |  |
| Measured Depth                            | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre +N/-S | Centre +E/-W | Between Centres | Between Ellipses | Minimum Separation | Separation Factor |                                                                             |         |                            |  |
| (ft)                                      | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | (ft)                         | (ft)         | (ft)            | (ft)             | (ft)               |                   |                                                                             |         |                            |  |
| 13,900.00                                 | 8,835.00       | 9,613.99       | 7,764.50       | 109.15          | 48.09  | 0.77              | 1,052.12                     | 8,425.83     | 3,587.98        | 3,508.10         | 79.88              | 44.920            |                                                                             |         |                            |  |
| 14,000.00                                 | 8,835.00       | 9,614.36       | 7,764.51       | 111.10          | 48.10  | 0.79              | 1,051.75                     | 8,425.84     | 3,492.03        | 3,412.11         | 79.93              | 43.691            |                                                                             |         |                            |  |
| 14,100.00                                 | 8,835.00       | 9,614.73       | 7,764.52       | 113.06          | 48.10  | 0.82              | 1,051.38                     | 8,425.84     | 3,396.32        | 3,316.34         | 79.98              | 42.464            |                                                                             |         |                            |  |
| 14,200.00                                 | 8,835.00       | 9,615.10       | 7,764.53       | 115.03          | 48.11  | 0.84              | 1,051.01                     | 8,425.84     | 3,300.86        | 3,220.82         | 80.04              | 41.239            |                                                                             |         |                            |  |
| 14,300.00                                 | 8,835.00       | 9,615.46       | 7,764.54       | 116.99          | 48.12  | 0.86              | 1,050.65                     | 8,425.85     | 3,205.67        | 3,125.57         | 80.11              | 40.017            |                                                                             |         |                            |  |
| 14,400.00                                 | 8,835.00       | 9,615.83       | 7,764.55       | 118.96          | 48.12  | 0.88              | 1,050.28                     | 8,425.85     | 3,110.79        | 3,030.61         | 80.18              | 38.797            |                                                                             |         |                            |  |
| 14,500.00                                 | 8,835.00       | 9,616.19       | 7,764.56       | 120.93          | 48.13  | 0.90              | 1,049.92                     | 8,425.85     | 3,016.24        | 2,935.98         | 80.26              | 37.579            |                                                                             |         |                            |  |
| 14,600.00                                 | 8,835.00       | 9,616.56       | 7,764.57       | 122.90          | 48.13  | 0.92              | 1,049.55                     | 8,425.86     | 2,922.05        | 2,841.70         | 80.36              | 36.364            |                                                                             |         |                            |  |
| 14,700.00                                 | 8,835.00       | 9,616.92       | 7,764.58       | 124.88          | 48.14  | 0.94              | 1,049.19                     | 8,425.86     | 2,828.27        | 2,747.81         | 80.46              | 35.152            |                                                                             |         |                            |  |
| 14,800.00                                 | 8,835.00       | 9,617.28       | 7,764.59       | 126.86          | 48.14  | 0.96              | 1,048.83                     | 8,425.86     | 2,734.92        | 2,654.35         | 80.57              | 33.944            |                                                                             |         |                            |  |
| 14,900.00                                 | 8,835.00       | 9,617.64       | 7,764.59       | 128.84          | 48.15  | 0.98              | 1,048.47                     | 8,425.87     | 2,642.06        | 2,561.36         | 80.70              | 32.740            |                                                                             |         |                            |  |
| 15,000.00                                 | 8,835.00       | 9,618.00       | 7,764.60       | 130.82          | 48.16  | 1.00              | 1,048.11                     | 8,425.87     | 2,549.73        | 2,468.89         | 80.84              | 31.540            |                                                                             |         |                            |  |
| 15,100.00                                 | 8,835.00       | 9,618.36       | 7,764.61       | 132.80          | 48.16  | 1.02              | 1,047.75                     | 8,425.87     | 2,458.01        | 2,377.01         | 81.00              | 30.346            |                                                                             |         |                            |  |
| 15,200.00                                 | 8,835.00       | 9,618.71       | 7,764.62       | 134.79          | 48.17  | 1.04              | 1,047.40                     | 8,425.88     | 2,366.96        | 2,285.78         | 81.18              | 29.158            |                                                                             |         |                            |  |
| 15,300.00                                 | 8,835.00       | 9,619.07       | 7,764.63       | 136.78          | 48.17  | 1.07              | 1,047.04                     | 8,425.88     | 2,276.66        | 2,195.28         | 81.38              | 27.977            |                                                                             |         |                            |  |
| 15,400.00                                 | 8,835.00       | 9,619.42       | 7,764.64       | 138.76          | 48.18  | 1.09              | 1,046.69                     | 8,425.88     | 2,187.21        | 2,105.61         | 81.60              | 26.804            |                                                                             |         |                            |  |
| 15,500.00                                 | 8,835.00       | 9,619.78       | 7,764.65       | 140.76          | 48.19  | 1.11              | 1,046.33                     | 8,425.89     | 2,098.70        | 2,016.85         | 81.85              | 25.641            |                                                                             |         |                            |  |
| 15,600.00                                 | 8,835.00       | 9,620.13       | 7,764.66       | 142.75          | 48.19  | 1.13              | 1,045.98                     | 8,425.89     | 2,011.28        | 1,929.15         | 82.13              | 24.490            |                                                                             |         |                            |  |
| 15,700.00                                 | 8,835.00       | 9,620.48       | 7,764.67       | 144.74          | 48.20  | 1.15              | 1,045.63                     | 8,425.89     | 1,925.08        | 1,842.64         | 82.44              | 23.353            |                                                                             |         |                            |  |
| 15,800.00                                 | 8,835.00       | 9,620.83       | 7,764.68       | 146.74          | 48.20  | 1.17              | 1,045.28                     | 8,425.90     | 1,840.27        | 1,757.50         | 82.78              | 22.232            |                                                                             |         |                            |  |
| 15,900.00                                 | 8,835.00       | 9,621.18       | 7,764.69       | 148.73          | 48.21  | 1.19              | 1,044.93                     | 8,425.90     | 1,757.07        | 1,673.92         | 83.15              | 21.132            |                                                                             |         |                            |  |
| 16,000.00                                 | 8,835.00       | 9,621.53       | 7,764.69       | 150.73          | 48.21  | 1.21              | 1,044.58                     | 8,425.90     | 1,675.70        | 1,592.15         | 83.55              | 20.056            |                                                                             |         |                            |  |
| 16,100.00                                 | 8,835.00       | 9,621.88       | 7,764.70       | 152.73          | 48.22  | 1.23              | 1,044.24                     | 8,425.91     | 1,596.45        | 1,512.46         | 83.99              | 19.009            |                                                                             |         |                            |  |
| 16,200.00                                 | 8,835.00       | 9,622.22       | 7,764.71       | 154.73          | 48.23  | 1.25              | 1,043.89                     | 8,425.91     | 1,519.65        | 1,435.21         | 84.44              | 17.997            |                                                                             |         |                            |  |
| 16,300.00                                 | 8,835.00       | 9,622.57       | 7,764.72       | 156.73          | 48.23  | 1.27              | 1,043.55                     | 8,425.91     | 1,445.69        | 1,360.78         | 84.91              | 17.027            |                                                                             |         |                            |  |
| 16,400.00                                 | 8,835.00       | 9,622.91       | 7,764.73       | 158.74          | 48.24  | 1.29              | 1,043.20                     | 8,425.92     | 1,375.02        | 1,289.65         | 85.37              | 16.107            |                                                                             |         |                            |  |
| 16,500.00                                 | 8,835.00       | 9,623.25       | 7,764.74       | 160.74          | 48.24  | 1.31              | 1,042.86                     | 8,425.92     | 1,308.19        | 1,222.39         | 85.81              | 15.246            |                                                                             |         |                            |  |
| 16,600.00                                 | 8,835.00       | 9,623.59       | 7,764.75       | 162.74          | 48.25  | 1.33              | 1,042.52                     | 8,425.92     | 1,245.81        | 1,159.63         | 86.18              | 14.456            |                                                                             |         |                            |  |
| 16,700.00                                 | 8,835.00       | 9,623.94       | 7,764.76       | 164.75          | 48.25  | 1.34              | 1,042.18                     | 8,425.93     | 1,188.58        | 1,102.12         | 86.47              | 13.746            |                                                                             |         |                            |  |
| 16,800.00                                 | 8,835.00       | 9,624.28       | 7,764.76       | 166.76          | 48.26  | 1.36              | 1,041.84                     | 8,425.93     | 1,137.28        | 1,050.66         | 86.63              | 13.129            |                                                                             |         |                            |  |
| 16,900.00                                 | 8,835.00       | 9,624.61       | 7,764.77       | 168.77          | 48.27  | 1.38              | 1,041.50                     | 8,425.93     | 1,092.75        | 1,006.11         | 86.63              | 12.613            |                                                                             |         |                            |  |
| 17,000.00                                 | 8,835.00       | 9,624.95       | 7,764.78       | 170.77          | 48.27  | 1.40              | 1,041.16                     | 8,425.93     | 1,055.83        | 969.32           | 86.51              | 12.204            |                                                                             |         |                            |  |
| 17,100.00                                 | 8,835.00       | 9,625.29       | 7,764.79       | 172.78          | 48.28  | 1.42              | 1,040.82                     | 8,425.94     | 1,027.35        | 941.01           | 86.34              | 11.898            |                                                                             |         |                            |  |
| 17,200.00                                 | 8,835.00       | 9,625.63       | 7,764.80       | 174.79          | 48.28  | 1.44              | 1,040.49                     | 8,425.94     | 1,008.03        | 921.71           | 86.33              | 11.677            |                                                                             |         |                            |  |
| 17,300.00                                 | 8,835.00       | 9,625.96       | 7,764.81       | 176.81          | 48.29  | 1.46              | 1,040.15                     | 8,425.94     | 998.40          | 911.67           | 86.74              | 11.511            |                                                                             |         |                            |  |
| 17,346.61                                 | 8,835.00       | 9,626.12       | 7,764.81       | 177.74          | 48.29  | 1.47              | 1,040.00                     | 8,425.95     | 997.32          | 910.17           | 87.14              | 11.445 CC, ES     |                                                                             |         |                            |  |
| 17,400.00                                 | 8,835.00       | 9,626.29       | 7,764.82       | 178.82          | 48.29  | 1.48              | 1,039.82                     | 8,425.95     | 998.74          | 910.96           | 87.79              | 11.377            |                                                                             |         |                            |  |
| 17,500.00                                 | 8,835.00       | 9,626.63       | 7,764.82       | 180.83          | 48.30  | 1.50              | 1,039.49                     | 8,425.95     | 1,009.04        | 919.61           | 89.43              | 11.282            |                                                                             |         |                            |  |
| 17,600.00                                 | 8,835.00       | 9,626.96       | 7,764.83       | 182.84          | 48.30  | 1.52              | 1,039.16                     | 8,425.95     | 1,029.00        | 937.62           | 91.39              | 11.260 SF         |                                                                             |         |                            |  |
| 17,700.00                                 | 8,835.00       | 9,627.29       | 7,764.84       | 184.86          | 48.31  | 1.54              | 1,038.82                     | 8,425.96     | 1,058.08        | 964.76           | 93.31              | 11.339            |                                                                             |         |                            |  |
| 17,800.00                                 | 8,835.00       | 9,627.62       | 7,764.85       | 186.87          | 48.31  | 1.56              | 1,038.49                     | 8,425.96     | 1,095.54        | 1,000.54         | 95.00              | 11.532            |                                                                             |         |                            |  |
| 17,900.00                                 | 8,835.00       | 9,627.95       | 7,764.86       | 188.89          | 48.32  | 1.58              | 1,038.17                     | 8,425.96     | 1,140.56        | 1,044.22         | 96.34              | 11.839            |                                                                             |         |                            |  |
| 18,000.00                                 | 8,835.00       | 9,628.28       | 7,764.87       | 190.91          | 48.33  | 1.59              | 1,037.84                     | 8,425.97     | 1,192.29        | 1,094.96         | 97.33              | 12.250            |                                                                             |         |                            |  |
| 18,100.00                                 | 8,835.00       | 9,628.60       | 7,764.88       | 192.92          | 48.33  | 1.61              | 1,037.51                     | 8,425.97     | 1,249.89        | 1,151.90         | 97.99              | 12.755            |                                                                             |         |                            |  |
| 18,200.00                                 | 8,835.00       | 9,628.93       | 7,764.88       | 194.94          | 48.34  | 1.63              | 1,037.18                     | 8,425.97     | 1,312.60        | 1,214.20         | 98.39              | 13.340            |                                                                             |         |                            |  |
| 18,300.00                                 | 8,835.00       | 9,629.26       | 7,764.89       | 196.96          | 48.34  | 1.65              | 1,036.86                     | 8,425.97     | 1,379.71        | 1,281.12         | 98.58              | 13.996            |                                                                             |         |                            |  |
| 18,400.00                                 | 8,835.00       | 9,629.58       | 7,764.90       | 198.98          | 48.35  | 1.67              | 1,036.53                     | 8,425.98     | 1,450.61        | 1,352.00         | 98.61              | 14.711            |                                                                             |         |                            |  |
| 18,500.00                                 | 8,835.00       | 9,629.90       | 7,764.91       | 201.00          | 48.35  | 1.69              | 1,036.21                     | 8,425.98     | 1,524.78        | 1,426.25         | 98.52              | 15.477            |                                                                             |         |                            |  |
| 18,600.00                                 | 8,835.00       | 9,630.23       | 7,764.92       | 203.02          | 48.36  | 1.71              | 1,035.89                     | 8,425.98     | 1,601.75        | 1,503.41         | 98.35              | 16.287            |                                                                             |         |                            |  |
| 18,700.00                                 | 8,835.00       | 9,630.55       | 7,764.93       | 205.04          | 48.36  | 1.72              | 1,035.57                     | 8,425.99     | 1,681.16        | 1,583.04         | 98.12              | 17.134            |                                                                             |         |                            |  |
| 18,800.00                                 | 8,835.00       | 9,630.87       | 7,764.93       | 207.06          | 48.37  | 1.74              | 1,035.25                     | 8,425.99     | 1,762.66        | 1,664.80         | 97.86              | 18.012            |                                                                             |         |                            |  |
| 18,900.00                                 | 8,835.00       | 9,631.19       | 7,764.94       | 209.08          | 48.37  | 1.76              | 1,034.93                     | 8,425.99     | 1,845.98        | 1,748.40         | 97.58              | 18.918            |                                                                             |         |                            |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 8H - Original Hole - Actuals |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Site Error:</b> | 5.00 ft |
|--------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|-----------------------------------------|---------------|-------------------------|--------------------------|----------------------------|---------------------------|---------|
| Survey Program: 81-GYRO-NS, 7138-MWD+IGRF                                                        |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Well Error:</b> | 0.00 ft |
| Reference                                                                                        |                        | Offset                 |                        | Semi Major Axis   |                |                          | Distance                                |               |                         |                          |                            |                           | Warning |
| Measured Depth<br>(ft)                                                                           | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between Centres<br>(ft) | Between Ellipses<br>(ft) | Minimum Separation<br>(ft) | Separation Factor         |         |
| 19,000.00                                                                                        | 8,835.00               | 9,631.51               | 7,764.95               | 211.10            | 48.38          | 1.78                     | 1,034.61                                | 8,426.00      | 1,930.89                | 1,833.60                 | 97.29                      | 19.847                    |         |
| 19,100.00                                                                                        | 8,835.00               | 9,631.82               | 7,764.96               | 213.12            | 48.38          | 1.80                     | 1,034.29                                | 8,426.00      | 2,017.17                | 1,920.18                 | 97.00                      | 20.796                    |         |
| 19,200.00                                                                                        | 8,835.00               | 9,632.14               | 7,764.97               | 215.15            | 48.39          | 1.82                     | 1,033.97                                | 8,426.00      | 2,104.68                | 2,007.97                 | 96.71                      | 21.762                    |         |
| 19,308.27                                                                                        | 8,835.00               | 9,632.48               | 7,764.98               | 217.34            | 48.39          | 1.84                     | 1,033.63                                | 8,426.00      | 2,200.62                | 2,104.20                 | 96.41                      | 22.825                    |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                |                |                |                 |        |                   |                              |                              |                 |                  |                    |                   | Sec 13-T21S-R27E - Lone Tree Draw State 3H - Wellbore #1 - Wellbore #1 |  | Offset Site Error: 5.00 ft |  |
|-----------------------------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------------|------------------------------|-----------------|------------------|--------------------|-------------------|------------------------------------------------------------------------|--|----------------------------|--|
| Survey Program: 100-GYRO-NS-CT, 4452-MWD+HDGM |                |                |                |                 |        |                   |                              |                              |                 |                  |                    |                   | Offset Well Error: 0.50 ft                                             |  |                            |  |
| Reference                                     |                | Offset         |                | Semi Major Axis |        |                   | Distance                     |                              |                 |                  |                    |                   |                                                                        |  |                            |  |
| Measured Depth                                | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre +N/-S | Offset Wellbore Centre +E/-W | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | Warning                                                                |  |                            |  |
| (ft)                                          | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | (ft)                         | (ft)                         | (ft)            | (ft)             | (ft)               |                   |                                                                        |  |                            |  |
| 0.00                                          | 0.00           | 0.00           | 0.00           | 0.50            | 5.02   | 65.66             | 3,104.84                     | 6,862.82                     | 7,532.72        |                  |                    |                   |                                                                        |  |                            |  |
| 100.00                                        | 100.00         | 26.32          | 26.32          | 0.52            | 5.03   | 65.66             | 3,104.87                     | 6,862.84                     | 7,532.53        | 7,526.98         | 5.54               | 1,358.969         |                                                                        |  |                            |  |
| 200.00                                        | 200.00         | 100.00         | 100.00         | 0.70            | 5.03   | 65.65             | 3,105.30                     | 6,863.03                     | 7,532.97        | 7,527.25         | 5.73               | 1,314.928         |                                                                        |  |                            |  |
| 300.00                                        | 300.00         | 213.72         | 213.71         | 0.99            | 5.05   | 65.65             | 3,106.12                     | 6,863.35                     | 7,533.55        | 7,527.51         | 6.04               | 1,247.224         |                                                                        |  |                            |  |
| 400.00                                        | 400.00         | 278.77         | 278.76         | 1.31            | 5.08   | 65.65             | 3,106.84                     | 6,863.51                     | 7,534.19        | 7,527.80         | 6.39               | 1,178.854         |                                                                        |  |                            |  |
| 500.00                                        | 500.00         | 392.99         | 392.96         | 1.65            | 5.16   | 65.63             | 3,108.72                     | 6,863.67                     | 7,535.01        | 7,528.21         | 6.80               | 1,107.456         |                                                                        |  |                            |  |
| 600.00                                        | 600.00         | 507.17         | 507.13         | 1.99            | 5.26   | 65.62             | 3,110.31                     | 6,863.62                     | 7,535.55        | 7,528.30         | 7.25               | 1,038.888         |                                                                        |  |                            |  |
| 700.00                                        | 700.00         | 576.27         | 576.23         | 2.34            | 5.34   | 65.62             | 3,111.23                     | 6,863.72                     | 7,536.22        | 7,528.55         | 7.68               | 981.390           |                                                                        |  |                            |  |
| 800.00                                        | 800.00         | 675.80         | 675.74         | 2.69            | 5.47   | 65.60             | 3,112.95                     | 6,863.96                     | 7,537.15        | 7,528.99         | 8.16               | 923.792           |                                                                        |  |                            |  |
| 900.00                                        | 900.00         | 788.20         | 788.12         | 3.04            | 5.64   | 65.59             | 3,115.06                     | 6,863.97                     | 7,537.94        | 7,529.26         | 8.68               | 868.433           |                                                                        |  |                            |  |
| 1,000.00                                      | 1,000.00       | 858.90         | 858.82         | 3.40            | 5.75   | 65.58             | 3,116.22                     | 6,864.11                     | 7,538.81        | 7,529.65         | 9.15               | 823.845           |                                                                        |  |                            |  |
| 1,100.00                                      | 1,100.00       | 1,100.00       | 975.00         | 3.75            | 6.21   | 65.57             | 3,118.50                     | 6,864.35                     | 7,539.81        | 7,529.85         | 9.96               | 756.712           |                                                                        |  |                            |  |
| 1,200.00                                      | 1,200.00       | 1,193.56       | 1,193.41       | 4.11            | 6.41   | 65.54             | 3,122.09                     | 6,862.56                     | 7,539.56        | 7,529.04         | 10.52              | 716.874           |                                                                        |  |                            |  |
| 1,300.00                                      | 1,300.00       | 1,315.79       | 1,315.61       | 4.46            | 6.68   | 65.52             | 3,123.48                     | 6,860.74                     | 7,538.67        | 7,527.52         | 11.15              | 676.318           |                                                                        |  |                            |  |
| 1,400.00                                      | 1,400.00       | 1,400.83       | 1,400.65       | 4.82            | 6.88   | 65.51             | 3,124.11                     | 6,859.63                     | 7,537.78        | 7,526.08         | 11.70              | 644.140           |                                                                        |  |                            |  |
| 1,500.00                                      | 1,500.00       | 1,526.30       | 1,526.10       | 5.18            | 7.19   | 65.50             | 3,125.20                     | 6,857.78                     | 7,536.79        | 7,524.42         | 12.36              | 609.531           |                                                                        |  |                            |  |
| 1,600.00                                      | 1,600.00       | 1,627.12       | 1,626.90       | 5.53            | 7.45   | 65.49             | 3,126.42                     | 6,855.94                     | 7,535.64        | 7,522.66         | 12.98              | 580.615           |                                                                        |  |                            |  |
| 1,700.00                                      | 1,700.00       | 1,700.00       | 1,764.64       | 5.89            | 7.64   | 65.47             | 3,127.99                     | 6,853.19                     | 7,534.31        | 7,520.78         | 13.53              | 557.030           |                                                                        |  |                            |  |
| 1,800.00                                      | 1,800.00       | 8,019.91       | 4,987.55       | 6.25            | 50.60  | 91.38             | -163.37                      | 6,790.81                     | 7,528.65        | 7,475.85         | 52.80              | 142.600           |                                                                        |  |                            |  |
| 1,900.00                                      | 1,900.00       | 8,019.61       | 4,987.56       | 6.61            | 50.60  | 91.38             | -163.06                      | 6,790.81                     | 7,486.07        | 7,432.75         | 53.33              | 140.384           |                                                                        |  |                            |  |
| 2,000.00                                      | 2,000.00       | 8,019.30       | 4,987.56       | 6.96            | 50.60  | 91.37             | -162.76                      | 6,790.82                     | 7,444.60        | 7,390.74         | 53.86              | 138.229           |                                                                        |  |                            |  |
| 2,100.00                                      | 2,099.99       | 8,018.45       | 4,987.56       | 7.32            | 50.58  | 104.57            | -161.91                      | 6,790.84                     | 7,404.44        | 7,350.06         | 54.38              | 136.157           |                                                                        |  |                            |  |
| 2,200.00                                      | 2,199.96       | 8,016.52       | 4,987.57       | 7.68            | 50.56  | 104.96            | -159.97                      | 6,790.88                     | 7,365.82        | 7,310.93         | 54.89              | 134.188           |                                                                        |  |                            |  |
| 2,300.00                                      | 2,299.86       | 8,013.48       | 4,987.59       | 8.04            | 50.52  | 105.32            | -156.94                      | 6,790.95                     | 7,328.78        | 7,273.39         | 55.39              | 132.317           |                                                                        |  |                            |  |
| 2,400.00                                      | 2,399.68       | 8,009.34       | 4,987.61       | 8.39            | 50.46  | 105.65            | -152.80                      | 6,791.04                     | 7,293.36        | 7,237.49         | 55.87              | 130.544           |                                                                        |  |                            |  |
| 2,500.00                                      | 2,499.37       | 8,004.09       | 4,987.63       | 8.75            | 50.39  | 105.95            | -147.55                      | 6,791.16                     | 7,259.58        | 7,203.24         | 56.33              | 128.867           |                                                                        |  |                            |  |
| 2,600.00                                      | 2,598.90       | 7,997.73       | 4,987.67       | 9.11            | 50.30  | 106.22            | -141.19                      | 6,791.31                     | 7,227.47        | 7,170.69         | 56.78              | 127.283           |                                                                        |  |                            |  |
| 2,700.00                                      | 2,698.26       | 7,995.18       | 4,987.68       | 9.46            | 50.26  | 106.51            | -138.64                      | 6,791.36                     | 7,197.06        | 7,139.78         | 57.28              | 125.650           |                                                                        |  |                            |  |
| 2,800.00                                      | 2,797.40       | 7,978.44       | 4,987.78       | 9.82            | 50.04  | 106.66            | -121.91                      | 6,791.77                     | 7,168.38        | 7,110.79         | 57.59              | 124.480           |                                                                        |  |                            |  |
| 2,900.00                                      | 2,896.30       | 7,959.52       | 4,987.90       | 10.18           | 49.78  | 106.77            | -102.99                      | 6,792.21                     | 7,141.43        | 7,083.57         | 57.86              | 123.420           |                                                                        |  |                            |  |
| 3,000.00                                      | 2,994.93       | 7,938.41       | 4,988.04       | 10.54           | 49.49  | 106.85            | -81.90                       | 6,792.69                     | 7,116.23        | 7,058.13         | 58.11              | 122.470           |                                                                        |  |                            |  |
| 3,100.00                                      | 3,093.26       | 7,915.12       | 4,988.20       | 10.90           | 49.17  | 106.89            | -58.61                       | 6,793.21                     | 7,092.79        | 7,034.48         | 58.32              | 121.628           |                                                                        |  |                            |  |
| 3,195.07                                      | 3,186.42       | 7,890.94       | 4,988.38       | 11.24           | 48.84  | 106.89            | -34.43                       | 6,793.72                     | 7,072.14        | 7,013.66         | 58.48              | 120.926           |                                                                        |  |                            |  |
| 3,200.00                                      | 3,191.25       | 7,889.73       | 4,988.38       | 11.26           | 48.82  | 106.88            | -33.22                       | 6,793.74                     | 7,071.11        | 7,012.62         | 58.49              | 120.890           |                                                                        |  |                            |  |
| 3,300.00                                      | 3,289.08       | 7,870.14       | 4,988.53       | 11.62           | 48.55  | 106.73            | -13.64                       | 6,794.15                     | 7,050.95        | 6,992.21         | 58.74              | 120.032           |                                                                        |  |                            |  |
| 3,400.00                                      | 3,386.91       | 7,850.56       | 4,988.67       | 11.98           | 48.29  | 106.57            | 5.93                         | 6,794.56                     | 7,032.09        | 6,973.10         | 58.99              | 119.212           |                                                                        |  |                            |  |
| 3,500.00                                      | 3,484.74       | 7,830.98       | 4,988.81       | 12.35           | 48.02  | 106.41            | 25.51                        | 6,794.98                     | 7,014.55        | 6,955.32         | 59.23              | 118.432           |                                                                        |  |                            |  |
| 3,600.00                                      | 3,582.58       | 7,800.00       | 4,989.36       | 12.72           | 47.66  | 105.80            | 100.17                       | 6,796.27                     | 6,998.24        | 6,976.97         | 59.48              | 117.518           |                                                                        |  |                            |  |
| 3,700.00                                      | 3,680.41       | 7,672.84       | 4,989.92       | 13.09           | 45.86  | 105.13            | 183.63                       | 6,797.18                     | 6,983.26        | 6,925.16         | 58.10              | 120.197           |                                                                        |  |                            |  |
| 3,800.00                                      | 3,778.24       | 7,646.17       | 4,989.96       | 13.46           | 45.50  | 104.91            | 210.30                       | 6,797.31                     | 6,969.36        | 6,911.13         | 58.22              | 119.702           |                                                                        |  |                            |  |
| 3,900.00                                      | 3,876.08       | 7,620.52       | 4,989.89       | 13.83           | 45.15  | 104.70            | 235.95                       | 6,797.44                     | 6,956.79        | 6,898.43         | 58.35              | 119.217           |                                                                        |  |                            |  |
| 4,000.00                                      | 3,973.91       | 7,597.69       | 4,989.74       | 14.21           | 44.84  | 104.52            | 258.77                       | 6,797.55                     | 6,945.57        | 6,887.05         | 58.52              | 118.695           |                                                                        |  |                            |  |
| 4,100.00                                      | 4,071.74       | 7,579.59       | 4,989.62       | 14.58           | 44.60  | 104.37            | 276.88                       | 6,797.63                     | 6,935.72        | 6,876.98         | 58.74              | 118.083           |                                                                        |  |                            |  |
| 4,200.00                                      | 4,169.57       | 7,561.35       | 4,989.51       | 14.96           | 44.35  | 104.22            | 295.11                       | 6,797.72                     | 6,927.24        | 6,868.30         | 58.95              | 117.518           |                                                                        |  |                            |  |
| 4,300.00                                      | 4,267.41       | 7,542.99       | 4,989.41       | 15.33           | 44.10  | 104.07            | 313.47                       | 6,797.81                     | 6,920.15        | 6,861.01         | 59.15              | 117.000           |                                                                        |  |                            |  |
| 4,400.00                                      | 4,365.24       | 7,524.50       | 4,989.33       | 15.71           | 43.85  | 103.92            | 331.96                       | 6,797.91                     | 6,914.45        | 6,855.11         | 59.34              | 116.527           |                                                                        |  |                            |  |
| 4,500.00                                      | 4,463.07       | 7,508.00       | 4,989.26       | 16.09           | 43.62  | 103.79            | 348.46                       | 6,797.99                     | 6,910.14        | 6,850.59         | 59.55              | 116.045           |                                                                        |  |                            |  |
| 4,600.00                                      | 4,560.90       | 7,508.00       | 4,989.26       | 16.47           | 43.62  | 103.79            | 348.46                       | 6,797.99                     | 6,907.25        | 6,847.27         | 59.97              | 115.176           |                                                                        |  |                            |  |
| 4,700.00                                      | 4,658.74       | 7,483.10       | 4,989.18       | 16.85           | 43.29  | 103.58            | 373.37                       | 6,798.15                     | 6,905.73        | 6,845.68         | 60.05              | 114.996           |                                                                        |  |                            |  |
| 4,755.88                                      | 4,713.41       | 7,476.49       | 4,989.16       | 17.06           | 43.20  | 103.53            | 379.97                       | 6,798.21                     | 6,905.51        | 6,845.32         | 60.19              | 114.725           |                                                                        |  |                            |  |
| 4,800.00                                      | 4,756.57       | 7,471.27       | 4,989.14       | 17.23           | 43.13  | 103.49            | 385.19                       | 6,798.25                     | 6,905.64        | 6,845.34         | 60.30              | 114.522           |                                                                        |  |                            |  |
| 4,900.00                                      | 4,854.40       | 7,459.41       | 4,989.11       | 17.61           | 42.97  | 103.39            | 397.05                       | 6,798.36                     | 6,906.98        | 6,846.44         | 60.54              | 114.093           |                                                                        |  |                            |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 4452-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,000.00                                      | 4,952.23            | 7,447.53            | 4,989.09            | 17.99           | 42.81       | 103.30                | 408.94                            | 6,798.49   | 6,909.72             | 6,848.95              | 60.77                   | 113.709           |                    |         |
| 5,100.00                                      | 5,050.07            | 7,435.61            | 4,989.06            | 18.37           | 42.65       | 103.20                | 420.85                            | 6,798.63   | 6,913.87             | 6,852.89              | 60.99                   | 113.369           |                    |         |
| 5,200.00                                      | 5,147.90            | 7,420.00            | 4,989.04            | 18.75           | 16.22       | 103.07                | 437.04                            | 6,798.85   | 6,919.45             | 6,887.56              | 31.89                   | 217.009           |                    |         |
| 5,300.00                                      | 5,245.73            | 7,410.13            | 4,989.02            | 19.14           | 42.30       | 102.99                | 446.33                            | 6,798.97   | 6,926.40             | 6,865.03              | 61.37                   | 112.858           |                    |         |
| 5,400.00                                      | 5,343.56            | 7,383.79            | 4,988.99            | 19.52           | 41.95       | 102.78                | 472.67                            | 6,799.34   | 6,934.75             | 6,873.38              | 61.37                   | 112.996           |                    |         |
| 5,500.00                                      | 5,441.40            | 7,357.52            | 4,988.94            | 19.90           | 41.60       | 102.56                | 498.93                            | 6,799.68   | 6,944.45             | 6,883.08              | 61.36                   | 113.170           |                    |         |
| 5,600.00                                      | 5,539.23            | 7,331.34            | 4,988.88            | 20.29           | 41.25       | 102.35                | 525.12                            | 6,799.99   | 6,955.49             | 6,894.15              | 61.35                   | 113.382           |                    |         |
| 5,700.00                                      | 5,637.06            | 7,309.43            | 4,988.83            | 20.67           | 40.96       | 102.17                | 547.02                            | 6,800.24   | 6,967.89             | 6,906.51              | 61.38                   | 113.527           |                    |         |
| 5,800.00                                      | 5,734.90            | 7,291.19            | 4,988.81            | 21.05           | 40.71       | 102.02                | 565.26                            | 6,800.45   | 6,981.63             | 6,920.19              | 61.45                   | 113.620           |                    |         |
| 5,900.00                                      | 5,832.73            | 7,272.77            | 4,988.80            | 21.44           | 40.47       | 101.87                | 583.68                            | 6,800.67   | 6,996.73             | 6,935.23              | 61.51                   | 113.755           |                    |         |
| 6,000.00                                      | 5,930.56            | 7,254.18            | 4,988.81            | 21.83           | 40.22       | 101.72                | 602.26                            | 6,800.90   | 7,013.17             | 6,951.62              | 61.56                   | 113.933           |                    |         |
| 6,100.00                                      | 6,028.39            | 7,235.59            | 4,988.87            | 22.21           | 24.98       | 101.33                | 650.61                            | 6,801.43   | 7,030.93             | 6,984.22              | 46.70                   | 150.543           |                    |         |
| 6,200.00                                      | 6,126.23            | 7,216.99            | 4,988.91            | 22.60           | 39.49       | 101.28                | 657.06                            | 6,801.57   | 7,050.02             | 6,988.63              | 61.40                   | 114.829           |                    |         |
| 6,300.00                                      | 6,224.06            | 7,198.39            | 4,988.92            | 22.98           | 38.74       | 100.82                | 713.44                            | 6,802.00   | 7,070.32             | 7,009.39              | 60.93                   | 116.047           |                    |         |
| 6,400.00                                      | 6,321.89            | 7,179.79            | 4,988.89            | 23.37           | 38.40       | 100.61                | 739.46                            | 6,802.10   | 7,091.84             | 7,030.99              | 60.85                   | 116.553           |                    |         |
| 6,500.00                                      | 6,419.72            | 7,161.19            | 4,988.86            | 23.76           | 38.17       | 100.47                | 757.26                            | 6,802.17   | 7,114.65             | 7,053.78              | 60.87                   | 116.890           |                    |         |
| 6,600.00                                      | 6,517.56            | 7,142.59            | 4,988.82            | 24.14           | 37.93       | 100.32                | 774.97                            | 6,802.24   | 7,138.73             | 7,077.85              | 60.88                   | 117.261           |                    |         |
| 6,700.00                                      | 6,615.39            | 7,123.99            | 4,988.77            | 24.53           | 37.70       | 100.18                | 792.60                            | 6,802.32   | 7,164.09             | 7,103.20              | 60.88                   | 117.666           |                    |         |
| 6,800.00                                      | 6,713.22            | 7,105.39            | 4,988.72            | 24.92           | 37.47       | 100.04                | 810.16                            | 6,802.40   | 7,190.69             | 7,129.81              | 60.88                   | 118.105           |                    |         |
| 6,900.00                                      | 6,811.05            | 7,086.79            | 4,988.65            | 25.30           | 37.24       | 99.90                 | 827.46                            | 6,802.49   | 7,218.54             | 7,157.66              | 60.88                   | 118.570           |                    |         |
| 7,000.00                                      | 6,908.89            | 7,068.19            | 4,988.59            | 25.69           | 37.02       | 99.76                 | 844.45                            | 6,802.57   | 7,247.61             | 7,186.74              | 60.87                   | 119.060           |                    |         |
| 7,100.00                                      | 7,006.72            | 7,049.59            | 4,988.51            | 26.08           | 36.80       | 99.62                 | 861.35                            | 6,802.67   | 7,277.89             | 7,217.03              | 60.86                   | 119.582           |                    |         |
| 7,200.00                                      | 7,104.55            | 7,030.99            | 4,988.43            | 26.47           | 36.58       | 99.49                 | 878.18                            | 6,802.76   | 7,309.37             | 7,248.53              | 60.84                   | 120.135           |                    |         |
| 7,216.87                                      | 7,121.05            | 7,012.39            | 4,988.41            | 26.53           | 36.54       | 99.46                 | 881.02                            | 6,802.78   | 7,314.80             | 7,253.96              | 60.84                   | 120.231           |                    |         |
| 7,300.00                                      | 7,202.57            | 7,000.00            | 4,988.34            | 26.85           | 36.37       | 99.78                 | 894.20                            | 6,802.86   | 7,341.89             | 7,281.07              | 60.83                   | 120.701           |                    |         |
| 7,400.00                                      | 7,301.06            | 6,988.39            | 4,988.26            | 27.23           | 36.19       | 100.19                | 908.05                            | 6,802.95   | 7,375.18             | 7,314.36              | 60.83                   | 121.251           |                    |         |
| 7,500.00                                      | 7,399.97            | 6,976.79            | 4,988.22            | 27.61           | 36.10       | 100.67                | 914.44                            | 6,802.99   | 7,409.21             | 7,348.30              | 60.91                   | 121.650           |                    |         |
| 7,600.00                                      | 7,499.23            | 6,965.19            | 4,988.22            | 27.98           | 36.10       | 101.22                | 914.44                            | 6,802.99   | 7,443.97             | 7,382.92              | 61.05                   | 121.926           |                    |         |
| 7,700.00                                      | 7,598.77            | 6,953.59            | 4,988.22            | 28.34           | 36.10       | 101.78                | 914.44                            | 6,802.99   | 7,479.43             | 7,418.24              | 61.19                   | 122.238           |                    |         |
| 7,800.00                                      | 7,698.53            | 6,941.99            | 4,988.22            | 28.70           | 36.10       | 102.34                | 914.44                            | 6,802.99   | 7,515.56             | 7,454.25              | 61.31                   | 122.584           |                    |         |
| 7,900.00                                      | 7,798.44            | 6,930.39            | 4,988.22            | 29.05           | 36.10       | 102.92                | 914.44                            | 6,802.99   | 7,552.32             | 7,490.90              | 61.42                   | 122.963           |                    |         |
| 8,000.00                                      | 7,898.42            | 6,918.79            | 4,988.22            | 29.39           | 36.10       | 103.51                | 914.44                            | 6,802.99   | 7,589.68             | 7,528.16              | 61.52                   | 123.373           |                    |         |
| 8,013.58                                      | 7,912.00            | 6,907.19            | 4,988.22            | 29.43           | 36.10       | 90.81                 | 914.44                            | 6,802.99   | 7,594.79             | 7,533.26              | 61.53                   | 123.432           |                    |         |
| 8,100.00                                      | 7,998.42            | 6,895.59            | 4,988.22            | 29.73           | 36.10       | 90.81                 | 914.44                            | 6,802.99   | 7,627.82             | 7,566.21              | 61.61                   | 123.812           |                    |         |
| 8,200.00                                      | 8,098.42            | 6,883.99            | 4,988.22            | 30.07           | 36.10       | 90.81                 | 914.44                            | 6,802.99   | 7,667.06             | 7,605.37              | 61.69                   | 124.277           |                    |         |
| 8,300.00                                      | 8,198.42            | 6,872.39            | 4,988.22            | 30.41           | 36.10       | 90.81                 | 914.44                            | 6,802.99   | 7,707.41             | 7,645.63              | 61.77                   | 124.767           |                    |         |
| 8,363.62                                      | 8,262.04            | 6,860.79            | 4,988.22            | 30.62           | 36.10       | 90.81                 | 914.44                            | 6,802.99   | 7,733.64             | 7,671.81              | 61.82                   | 125.092           |                    |         |
| 8,400.00                                      | 8,298.40            | 6,849.19            | 4,988.22            | 30.75           | 36.10       | 1.12                  | 914.44                            | 6,802.99   | 7,747.77             | 7,685.93              | 61.85                   | 125.276           |                    |         |
| 8,450.00                                      | 8,348.10            | 6,837.59            | 4,988.22            | 30.91           | 36.10       | 1.09                  | 914.44                            | 6,802.99   | 7,763.92             | 7,702.06              | 61.87                   | 125.493           |                    |         |
| 8,500.00                                      | 8,397.14            | 6,825.99            | 4,988.22            | 31.07           | 36.10       | 1.07                  | 914.44                            | 6,802.99   | 7,776.19             | 7,714.31              | 61.88                   | 125.659           |                    |         |
| 8,550.00                                      | 8,445.15            | 6,814.39            | 4,988.22            | 31.23           | 36.10       | 1.05                  | 914.44                            | 6,802.99   | 7,784.50             | 7,722.60              | 61.89                   | 125.774           |                    |         |
| 8,600.00                                      | 8,491.77            | 6,802.79            | 4,988.22            | 31.38           | 36.10       | 1.04                  | 914.44                            | 6,802.99   | 7,788.79             | 7,726.90              | 61.90                   | 125.839           |                    |         |
| 8,650.00                                      | 8,536.65            | 6,791.19            | 4,988.22            | 31.52           | 36.10       | 1.04                  | 914.44                            | 6,802.99   | 7,789.05             | 7,727.16              | 61.89                   | 125.854           |                    |         |
| 8,700.00                                      | 8,579.43            | 6,779.59            | 4,988.22            | 31.66           | 36.10       | 1.05                  | 914.44                            | 6,802.99   | 7,785.28             | 7,723.40              | 61.88                   | 125.822           |                    |         |
| 8,750.00                                      | 8,619.80            | 6,767.99            | 4,988.22            | 31.80           | 36.10       | 1.06                  | 914.44                            | 6,802.99   | 7,777.49             | 7,715.63              | 61.85                   | 125.742           |                    |         |
| 8,800.00                                      | 8,657.44            | 6,756.39            | 4,988.22            | 31.93           | 36.10       | 1.09                  | 914.44                            | 6,802.99   | 7,765.73             | 7,703.91              | 61.82                   | 125.615           |                    |         |
| 8,850.00                                      | 8,692.08            | 6,744.79            | 4,988.22            | 32.06           | 36.10       | 1.12                  | 914.44                            | 6,802.99   | 7,750.08             | 7,688.29              | 61.78                   | 125.442           |                    |         |
| 8,900.00                                      | 8,723.44            | 6,733.19            | 4,988.22            | 32.19           | 36.10       | 1.16                  | 914.44                            | 6,802.99   | 7,730.62             | 7,668.89              | 61.73                   | 125.224           |                    |         |
| 8,950.00                                      | 8,751.29            | 6,721.59            | 4,988.22            | 32.34           | 36.10       | 1.21                  | 914.44                            | 6,802.99   | 7,707.49             | 7,645.81              | 61.68                   | 124.960           |                    |         |
| 9,000.00                                      | 8,775.42            | 6,709.99            | 4,988.22            | 32.50           | 36.10       | 1.28                  | 914.44                            | 6,802.99   | 7,680.82             | 7,619.20              | 61.62                   | 124.651           |                    |         |
| 9,050.00                                      | 8,795.64            | 6,698.39            | 4,988.22            | 32.67           | 36.10       | 1.37                  | 914.44                            | 6,802.99   | 7,650.79             | 7,589.23              | 61.55                   | 124.298           |                    |         |
| 9,100.00                                      | 8,811.80            | 6,686.79            | 4,988.22            | 32.87           | 36.10       | 1.48                  | 914.44                            | 6,802.99   | 7,617.57             | 7,556.09              | 61.48                   | 123.901           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw State 3H - Wellbore #1 - Wellbore #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | <b>Offset Site Error:</b> | 5.00 ft |
|---------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|---------------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 4452-MWD+HDGM                                               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning                   |         |
| Measured Depth (ft)                                                                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                           |         |
| 9,150.00                                                                                    | 8,823.77            | 6,942.00            | 4,988.22            | 33.10           | 36.10       | 1.62                  | 914.44                            | 6,802.99   | 7,581.39             | 7,519.98              | 61.41                   | 123.461           |                           |         |
| 9,200.00                                                                                    | 8,831.47            | 6,942.00            | 4,988.22            | 33.34           | 36.10       | 1.81                  | 914.44                            | 6,802.99   | 7,542.48             | 7,481.15              | 61.33                   | 122.978           |                           |         |
| 9,250.00                                                                                    | 8,834.84            | 6,942.00            | 4,988.22            | 33.60           | 36.10       | 2.06                  | 914.44                            | 6,802.99   | 7,501.09             | 7,439.83              | 61.26                   | 122.454           |                           |         |
| 9,263.62                                                                                    | 8,835.00            | 6,942.00            | 4,988.22            | 33.67           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 7,489.42             | 7,428.18              | 61.24                   | 122.299           |                           |         |
| 9,300.00                                                                                    | 8,835.00            | 6,942.00            | 4,988.22            | 33.88           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 7,458.07             | 7,396.89              | 61.18                   | 121.903           |                           |         |
| 9,400.00                                                                                    | 8,835.00            | 6,942.00            | 4,988.22            | 34.53           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 7,372.12             | 7,311.11              | 61.02                   | 120.818           |                           |         |
| 9,500.00                                                                                    | 8,835.00            | 6,942.00            | 4,988.22            | 35.30           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 7,286.54             | 7,225.68              | 60.86                   | 119.730           |                           |         |
| 9,600.00                                                                                    | 8,835.00            | 6,942.00            | 4,988.22            | 36.17           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 7,201.32             | 7,140.62              | 60.70                   | 118.637           |                           |         |
| 9,700.00                                                                                    | 8,835.00            | 6,942.00            | 4,988.22            | 37.13           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 7,116.49             | 7,055.95              | 60.55                   | 117.539           |                           |         |
| 9,800.00                                                                                    | 8,835.00            | 6,942.00            | 4,988.22            | 38.18           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 7,032.06             | 6,971.67              | 60.39                   | 116.436           |                           |         |
| 9,900.00                                                                                    | 8,835.00            | 6,942.00            | 4,988.22            | 39.31           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,948.04             | 6,887.80              | 60.25                   | 115.328           |                           |         |
| 10,000.00                                                                                   | 8,835.00            | 6,942.00            | 4,988.22            | 40.51           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,864.45             | 6,804.35              | 60.10                   | 114.214           |                           |         |
| 10,100.00                                                                                   | 8,835.00            | 6,942.00            | 4,988.22            | 41.78           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,781.31             | 6,721.34              | 59.96                   | 113.094           |                           |         |
| 10,200.00                                                                                   | 8,835.00            | 6,942.00            | 4,988.22            | 43.10           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,698.62             | 6,638.79              | 59.83                   | 111.968           |                           |         |
| 10,300.00                                                                                   | 8,835.00            | 6,942.00            | 4,988.22            | 44.49           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,616.41             | 6,556.72              | 59.70                   | 110.834           |                           |         |
| 10,400.00                                                                                   | 8,835.00            | 6,942.00            | 4,988.22            | 45.92           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,534.70             | 6,475.13              | 59.57                   | 109.694           |                           |         |
| 10,500.00                                                                                   | 8,835.00            | 6,942.00            | 4,988.22            | 47.39           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,453.51             | 6,394.05              | 59.45                   | 108.545           |                           |         |
| 10,600.00                                                                                   | 8,835.00            | 6,942.00            | 4,988.22            | 48.91           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,372.85             | 6,313.50              | 59.34                   | 107.388           |                           |         |
| 10,700.00                                                                                   | 8,835.00            | 6,942.00            | 4,988.22            | 50.47           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,292.74             | 6,233.50              | 59.24                   | 106.223           |                           |         |
| 10,800.00                                                                                   | 8,835.00            | 6,942.00            | 4,988.22            | 52.06           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,213.21             | 6,154.07              | 59.15                   | 105.050           |                           |         |
| 10,900.00                                                                                   | 8,835.00            | 6,942.00            | 4,988.22            | 53.68           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,134.28             | 6,075.22              | 59.06                   | 103.867           |                           |         |
| 11,000.00                                                                                   | 8,835.00            | 6,917.61            | 4,987.98            | 55.32           | 35.79       | 1.77                  | 938.82                            | 6,803.16   | 6,055.86             | 5,997.13              | 58.72                   | 103.125           |                           |         |
| 11,100.00                                                                                   | 8,835.00            | 6,917.04            | 4,987.97            | 57.00           | 35.78       | 1.76                  | 939.39                            | 6,803.17   | 5,978.19             | 5,919.54              | 58.65                   | 101.926           |                           |         |
| 11,200.00                                                                                   | 8,835.00            | 6,916.47            | 4,987.97            | 58.70           | 35.77       | 1.75                  | 939.96                            | 6,803.17   | 5,901.19             | 5,842.60              | 58.59                   | 100.717           |                           |         |
| 11,300.00                                                                                   | 8,835.00            | 6,915.90            | 4,987.96            | 60.41           | 35.76       | 1.74                  | 940.53                            | 6,803.17   | 5,824.90             | 5,766.35              | 58.54                   | 99.497            |                           |         |
| 11,400.00                                                                                   | 8,835.00            | 6,915.33            | 4,987.95            | 62.15           | 35.76       | 1.74                  | 941.11                            | 6,803.18   | 5,749.33             | 5,690.82              | 58.51                   | 98.267            |                           |         |
| 11,500.00                                                                                   | 8,835.00            | 6,914.75            | 4,987.94            | 63.91           | 35.75       | 1.73                  | 941.69                            | 6,803.18   | 5,674.51             | 5,616.03              | 58.48                   | 97.027            |                           |         |
| 11,600.00                                                                                   | 8,835.00            | 6,914.17            | 4,987.93            | 65.69           | 35.74       | 1.72                  | 942.27                            | 6,803.19   | 5,600.49             | 5,542.01              | 58.47                   | 95.776            |                           |         |
| 11,700.00                                                                                   | 8,835.00            | 6,913.58            | 4,987.92            | 67.47           | 35.73       | 1.71                  | 942.85                            | 6,803.19   | 5,527.28             | 5,468.80              | 58.48                   | 94.515            |                           |         |
| 11,800.00                                                                                   | 8,835.00            | 6,913.00            | 4,987.91            | 69.28           | 35.73       | 1.70                  | 943.44                            | 6,803.20   | 5,454.92             | 5,396.42              | 58.50                   | 93.245            |                           |         |
| 11,900.00                                                                                   | 8,835.00            | 6,912.41            | 4,987.91            | 71.09           | 35.72       | 1.69                  | 944.03                            | 6,803.20   | 5,383.44             | 5,324.91              | 58.54                   | 91.965            |                           |         |
| 12,000.00                                                                                   | 8,835.00            | 6,911.81            | 4,987.90            | 72.92           | 35.71       | 1.68                  | 944.62                            | 6,803.21   | 5,312.89             | 5,254.30              | 58.59                   | 90.676            |                           |         |
| 12,100.00                                                                                   | 8,835.00            | 6,911.22            | 4,987.89            | 74.76           | 35.70       | 1.67                  | 945.22                            | 6,803.21   | 5,243.29             | 5,184.63              | 58.66                   | 89.379            |                           |         |
| 12,200.00                                                                                   | 8,835.00            | 6,910.62            | 4,987.88            | 76.61           | 35.70       | 1.66                  | 945.82                            | 6,803.22   | 5,174.70             | 5,115.94              | 58.75                   | 88.076            |                           |         |
| 12,300.00                                                                                   | 8,835.00            | 6,910.02            | 4,987.87            | 78.47           | 35.69       | 1.66                  | 946.42                            | 6,803.22   | 5,107.13             | 5,048.27              | 58.86                   | 86.766            |                           |         |
| 12,400.00                                                                                   | 8,835.00            | 6,909.41            | 4,987.86            | 80.34           | 35.68       | 1.65                  | 947.02                            | 6,803.23   | 5,040.65             | 4,981.66              | 58.99                   | 85.451            |                           |         |
| 12,500.00                                                                                   | 8,835.00            | 6,908.81            | 4,987.85            | 82.22           | 35.67       | 1.64                  | 947.63                            | 6,803.23   | 4,975.28             | 4,916.15              | 59.14                   | 84.132            |                           |         |
| 12,600.00                                                                                   | 8,835.00            | 6,908.20            | 4,987.84            | 84.11           | 35.67       | 1.63                  | 948.24                            | 6,803.24   | 4,911.09             | 4,851.78              | 59.30                   | 82.811            |                           |         |
| 12,700.00                                                                                   | 8,835.00            | 6,907.58            | 4,987.83            | 86.00           | 35.66       | 1.62                  | 948.85                            | 6,803.24   | 4,848.10             | 4,788.61              | 59.49                   | 81.490            |                           |         |
| 12,800.00                                                                                   | 8,835.00            | 6,906.96            | 4,987.82            | 87.90           | 35.65       | 1.61                  | 949.47                            | 6,803.25   | 4,786.38             | 4,726.68              | 59.70                   | 80.169            |                           |         |
| 12,900.00                                                                                   | 8,835.00            | 6,906.35            | 4,987.81            | 89.81           | 35.64       | 1.60                  | 950.09                            | 6,803.25   | 4,725.96             | 4,666.03              | 59.94                   | 78.851            |                           |         |
| 13,000.00                                                                                   | 8,835.00            | 6,905.72            | 4,987.80            | 91.72           | 35.63       | 1.59                  | 950.71                            | 6,803.26   | 4,666.91             | 4,606.72              | 60.19                   | 77.538            |                           |         |
| 13,100.00                                                                                   | 8,835.00            | 6,905.10            | 4,987.79            | 93.64           | 35.62       | 1.58                  | 951.34                            | 6,803.26   | 4,609.27             | 4,548.81              | 60.46                   | 76.232            |                           |         |
| 13,200.00                                                                                   | 8,835.00            | 6,904.47            | 4,987.77            | 95.56           | 35.62       | 1.57                  | 951.97                            | 6,803.27   | 4,553.10             | 4,492.34              | 60.76                   | 74.934            |                           |         |
| 13,300.00                                                                                   | 8,835.00            | 6,903.83            | 4,987.76            | 97.49           | 35.61       | 1.56                  | 952.60                            | 6,803.28   | 4,498.44             | 4,437.36              | 61.08                   | 73.647            |                           |         |
| 13,400.00                                                                                   | 8,835.00            | 6,903.20            | 4,987.75            | 99.42           | 35.60       | 1.55                  | 953.23                            | 6,803.28   | 4,445.37             | 4,383.95              | 61.42                   | 72.372            |                           |         |
| 13,500.00                                                                                   | 8,835.00            | 6,902.56            | 4,987.74            | 101.36          | 35.59       | 1.54                  | 953.87                            | 6,803.29   | 4,393.93             | 4,332.14              | 61.79                   | 71.113            |                           |         |
| 13,600.00                                                                                   | 8,835.00            | 6,901.92            | 4,987.73            | 103.30          | 35.58       | 1.53                  | 954.51                            | 6,803.29   | 4,344.18             | 4,282.01              | 62.17                   | 69.871            |                           |         |
| 13,700.00                                                                                   | 8,835.00            | 6,901.27            | 4,987.72            | 105.25          | 35.58       | 1.52                  | 955.16                            | 6,803.30   | 4,296.19             | 4,233.61              | 62.58                   | 68.648            |                           |         |
| 13,800.00                                                                                   | 8,835.00            | 6,900.62            | 4,987.70            | 107.20          | 35.57       | 1.51                  | 955.81                            | 6,803.30   | 4,250.00             | 4,186.99              | 63.01                   | 67.447            |                           |         |
| 13,900.00                                                                                   | 8,835.00            | 6,899.97            | 4,987.69            | 109.15          | 35.56       | 1.50                  | 956.46                            | 6,803.31   | 4,205.69             | 4,142.23              | 63.46                   | 66.268            |                           |         |
| 14,000.00                                                                                   | 8,835.00            | 6,899.32            | 4,987.68            | 111.10          | 35.55       | 1.49                  | 957.12                            | 6,803.32   | 4,163.31             | 4,099.37              | 63.94                   | 65.115            |                           |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 4452-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 14,100.00                                     | 8,835.00            | 6,898.66            | 4,987.67            | 113.06          | 35.54       | 1.48                  | 957.77                            | 6,803.32   | 4,122.92             | 4,058.48              | 64.43                   | 63.988            |                    |         |
| 14,200.00                                     | 8,835.00            | 6,898.00            | 4,987.65            | 115.03          | 35.53       | 1.47                  | 958.44                            | 6,803.33   | 4,084.57             | 4,019.62              | 64.95                   | 62.889            |                    |         |
| 14,300.00                                     | 8,835.00            | 6,897.33            | 4,987.64            | 116.99          | 35.52       | 1.46                  | 959.10                            | 6,803.33   | 4,048.34             | 3,982.85              | 65.49                   | 61.820            |                    |         |
| 14,400.00                                     | 8,835.00            | 6,896.66            | 4,987.63            | 118.96          | 35.52       | 1.45                  | 959.77                            | 6,803.34   | 4,014.26             | 3,948.22              | 66.04                   | 60.781            |                    |         |
| 14,500.00                                     | 8,835.00            | 6,895.99            | 4,987.61            | 120.93          | 35.51       | 1.44                  | 960.44                            | 6,803.35   | 3,982.41             | 3,915.79              | 66.62                   | 59.775            |                    |         |
| 14,600.00                                     | 8,835.00            | 6,895.31            | 4,987.60            | 122.90          | 35.50       | 1.43                  | 961.12                            | 6,803.35   | 3,952.83             | 3,885.61              | 67.22                   | 58.802            |                    |         |
| 14,700.00                                     | 8,835.00            | 6,894.63            | 4,987.59            | 124.88          | 35.49       | 1.42                  | 961.80                            | 6,803.36   | 3,925.58             | 3,857.73              | 67.84                   | 57.862            |                    |         |
| 14,800.00                                     | 8,835.00            | 6,893.95            | 4,987.57            | 126.86          | 35.48       | 1.41                  | 962.48                            | 6,803.36   | 3,900.70             | 3,832.21              | 68.48                   | 56.957            |                    |         |
| 14,900.00                                     | 8,835.00            | 6,893.26            | 4,987.56            | 128.84          | 35.47       | 1.40                  | 963.17                            | 6,803.37   | 3,878.24             | 3,809.09              | 69.15                   | 56.087            |                    |         |
| 15,000.00                                     | 8,835.00            | 6,892.57            | 4,987.54            | 130.82          | 35.46       | 1.39                  | 963.86                            | 6,803.38   | 3,858.24             | 3,788.41              | 69.83                   | 55.252            |                    |         |
| 15,100.00                                     | 8,835.00            | 6,891.88            | 4,987.53            | 132.80          | 35.45       | 1.38                  | 964.55                            | 6,803.38   | 3,840.74             | 3,770.21              | 70.53                   | 54.454            |                    |         |
| 15,200.00                                     | 8,835.00            | 6,891.18            | 4,987.51            | 134.79          | 35.44       | 1.37                  | 965.25                            | 6,803.39   | 3,825.78             | 3,754.52              | 71.26                   | 53.691            |                    |         |
| 15,300.00                                     | 8,835.00            | 6,890.48            | 4,987.50            | 136.78          | 35.44       | 1.36                  | 965.95                            | 6,803.40   | 3,813.38             | 3,741.38              | 72.00                   | 52.965            |                    |         |
| 15,400.00                                     | 8,835.00            | 6,889.77            | 4,987.48            | 138.76          | 35.43       | 1.35                  | 966.66                            | 6,803.40   | 3,803.56             | 3,730.80              | 72.76                   | 52.276            |                    |         |
| 15,500.00                                     | 8,835.00            | 6,889.06            | 4,987.47            | 140.76          | 35.42       | 1.34                  | 967.37                            | 6,803.41   | 3,796.36             | 3,722.82              | 73.54                   | 51.623            |                    |         |
| 15,600.00                                     | 8,835.00            | 6,888.35            | 4,987.45            | 142.75          | 35.41       | 1.33                  | 968.08                            | 6,803.42   | 3,791.79             | 3,717.45              | 74.34                   | 51.009            |                    |         |
| 15,700.00                                     | 8,835.00            | 6,887.63            | 4,987.43            | 144.74          | 35.40       | 1.32                  | 968.80                            | 6,803.42   | 3,789.84             | 3,714.69              | 75.15                   | 50.432            |                    |         |
| 15,723.69                                     | 8,835.00            | 6,887.46            | 4,987.43            | 145.21          | 35.40       | 1.31                  | 968.97                            | 6,803.43   | 3,789.77             | 3,714.43              | 75.34                   | 50.301 CC, ES     |                    |         |
| 15,800.00                                     | 8,835.00            | 6,886.91            | 4,987.42            | 146.74          | 35.39       | 1.31                  | 969.52                            | 6,803.43   | 3,790.54             | 3,714.56              | 75.97                   | 49.894            |                    |         |
| 15,900.00                                     | 8,835.00            | 6,886.19            | 4,987.40            | 148.73          | 35.38       | 1.30                  | 970.24                            | 6,803.44   | 3,793.87             | 3,717.06              | 76.81                   | 49.395            |                    |         |
| 16,000.00                                     | 8,835.00            | 6,885.46            | 4,987.38            | 150.73          | 35.37       | 1.28                  | 970.97                            | 6,803.44   | 3,799.83             | 3,722.18              | 77.65                   | 48.936            |                    |         |
| 16,100.00                                     | 8,835.00            | 6,884.73            | 4,987.37            | 152.73          | 35.36       | 1.27                  | 971.70                            | 6,803.45   | 3,808.40             | 3,729.90              | 78.50                   | 48.516            |                    |         |
| 16,200.00                                     | 8,835.00            | 6,883.99            | 4,987.35            | 154.73          | 35.35       | 1.26                  | 972.44                            | 6,803.46   | 3,819.58             | 3,740.23              | 79.35                   | 48.137            |                    |         |
| 16,300.00                                     | 8,835.00            | 6,883.25            | 4,987.33            | 156.73          | 35.34       | 1.25                  | 973.18                            | 6,803.47   | 3,833.33             | 3,753.13              | 80.20                   | 47.799            |                    |         |
| 16,400.00                                     | 8,835.00            | 6,882.50            | 4,987.31            | 158.74          | 35.33       | 1.24                  | 973.92                            | 6,803.47   | 3,849.63             | 3,768.59              | 81.04                   | 47.503            |                    |         |
| 16,500.00                                     | 8,835.00            | 6,881.76            | 4,987.29            | 160.74          | 35.32       | 1.23                  | 974.67                            | 6,803.48   | 3,868.45             | 3,786.58              | 81.88                   | 47.248            |                    |         |
| 16,600.00                                     | 8,835.00            | 6,881.00            | 4,987.27            | 162.74          | 35.31       | 1.22                  | 975.42                            | 6,803.49   | 3,889.75             | 3,807.05              | 82.70                   | 47.034            |                    |         |
| 16,700.00                                     | 8,835.00            | 6,880.24            | 4,987.26            | 164.75          | 35.30       | 1.21                  | 976.18                            | 6,803.50   | 3,913.49             | 3,829.98              | 83.51                   | 46.862            |                    |         |
| 16,800.00                                     | 8,835.00            | 6,879.48            | 4,987.24            | 166.76          | 35.29       | 1.19                  | 976.94                            | 6,803.50   | 3,939.62             | 3,855.32              | 84.30                   | 46.731            |                    |         |
| 16,900.00                                     | 8,835.00            | 6,878.72            | 4,987.22            | 168.77          | 35.28       | 1.18                  | 977.71                            | 6,803.51   | 3,968.11             | 3,883.03              | 85.08                   | 46.641            |                    |         |
| 17,000.00                                     | 8,835.00            | 6,877.95            | 4,987.20            | 170.77          | 35.27       | 1.17                  | 978.48                            | 6,803.52   | 3,998.89             | 3,913.06              | 85.83                   | 46.592            |                    |         |
| 17,100.00                                     | 8,835.00            | 6,877.17            | 4,987.18            | 172.78          | 35.26       | 1.16                  | 979.25                            | 6,803.53   | 4,031.91             | 3,945.36              | 86.56                   | 46.582            |                    |         |
| 17,200.00                                     | 8,835.00            | 6,876.39            | 4,987.16            | 174.79          | 35.25       | 1.15                  | 980.03                            | 6,803.54   | 4,067.13             | 3,979.88              | 87.26                   | 46.611            |                    |         |
| 17,300.00                                     | 8,835.00            | 6,875.61            | 4,987.14            | 176.81          | 35.24       | 1.14                  | 980.81                            | 6,803.54   | 4,104.48             | 4,016.55              | 87.93                   | 46.678            |                    |         |
| 17,400.00                                     | 8,835.00            | 6,874.82            | 4,987.11            | 178.82          | 35.23       | 1.12                  | 981.60                            | 6,803.55   | 4,143.91             | 4,055.33              | 88.58                   | 46.782            |                    |         |
| 17,500.00                                     | 8,835.00            | 6,874.03            | 4,987.09            | 180.83          | 35.22       | 1.11                  | 982.39                            | 6,803.56   | 4,185.36             | 4,096.16              | 89.20                   | 46.922            |                    |         |
| 17,600.00                                     | 8,835.00            | 6,873.24            | 4,987.07            | 182.84          | 35.21       | 1.10                  | 983.19                            | 6,803.57   | 4,228.76             | 4,138.98              | 89.79                   | 47.097            |                    |         |
| 17,700.00                                     | 8,835.00            | 6,872.43            | 4,987.05            | 184.86          | 35.20       | 1.09                  | 983.99                            | 6,803.58   | 4,274.07             | 4,183.72              | 90.35                   | 47.306            |                    |         |
| 17,800.00                                     | 8,835.00            | 6,871.63            | 4,987.03            | 186.87          | 35.19       | 1.08                  | 984.79                            | 6,803.59   | 4,321.21             | 4,230.33              | 90.88                   | 47.548            |                    |         |
| 17,900.00                                     | 8,835.00            | 6,870.82            | 4,987.00            | 188.89          | 35.18       | 1.06                  | 985.60                            | 6,803.59   | 4,370.14             | 4,278.75              | 91.38                   | 47.822            |                    |         |
| 18,000.00                                     | 8,835.00            | 6,870.00            | 4,986.98            | 190.91          | 35.17       | 1.05                  | 986.42                            | 6,803.60   | 4,420.78             | 4,328.92              | 91.86                   | 48.126            |                    |         |
| 18,100.00                                     | 8,835.00            | 6,869.18            | 4,986.96            | 192.92          | 35.16       | 1.04                  | 987.24                            | 6,803.61   | 4,473.09             | 4,380.78              | 92.31                   | 48.459            |                    |         |
| 18,200.00                                     | 8,835.00            | 6,868.36            | 4,986.93            | 194.94          | 35.15       | 1.03                  | 988.06                            | 6,803.62   | 4,527.00             | 4,434.27              | 92.73                   | 48.821            |                    |         |
| 18,300.00                                     | 8,835.00            | 6,867.53            | 4,986.91            | 196.96          | 35.14       | 1.01                  | 988.89                            | 6,803.63   | 4,582.46             | 4,489.33              | 93.12                   | 49.210            |                    |         |
| 18,400.00                                     | 8,835.00            | 6,866.70            | 4,986.89            | 198.98          | 35.13       | 1.00                  | 989.72                            | 6,803.64   | 4,639.41             | 4,545.92              | 93.49                   | 49.625            |                    |         |
| 18,500.00                                     | 8,835.00            | 18,500.00           | 4,986.25            | 201.00          | 185.52      | 0.70                  | 1,009.52                          | 6,803.87   | 4,697.87             | 4,492.52              | 205.35                  | 22.877 SF         |                    |         |
| 18,600.00                                     | 8,835.00            | 18,600.00           | 4,986.18            | 203.02          | 186.82      | 0.67                  | 1,011.68                          | 6,803.90   | 4,757.64             | 4,549.85              | 207.78                  | 22.897            |                    |         |
| 18,700.00                                     | 8,835.00            | 18,700.00           | 4,986.12            | 205.04          | 188.11      | 0.64                  | 1,013.85                          | 6,803.93   | 4,818.74             | 4,608.55              | 210.18                  | 22.926            |                    |         |
| 18,800.00                                     | 8,835.00            | 18,800.00           | 4,986.06            | 207.06          | 189.41      | 0.60                  | 1,016.01                          | 6,803.97   | 4,881.12             | 4,668.57              | 212.55                  | 22.965            |                    |         |
| 18,900.00                                     | 8,835.00            | 18,900.00           | 4,986.00            | 209.08          | 190.70      | 0.57                  | 1,018.18                          | 6,804.00   | 4,944.74             | 4,729.85              | 214.89                  | 23.011            |                    |         |
| 19,000.00                                     | 8,835.00            | 19,000.00           | 4,985.94            | 211.10          | 192.00      | 0.54                  | 1,020.34                          | 6,804.04   | 5,009.54             | 4,792.35              | 217.19                  | 23.065            |                    |         |
| 19,100.00                                     | 8,835.00            | 19,100.00           | 4,985.88            | 213.12          | 193.29      | 0.51                  | 1,022.50                          | 6,804.07   | 5,075.49             | 4,856.03              | 219.46                  | 23.127            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw State 3H - Wellbore #1 - Wellbore #1 |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Site Error:</b> | 5.00 ft |
|---------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|-----------------------------------------|---------------|-------------------------|--------------------------|----------------------------|---------------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 4452-MWD+HDGM                                               |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                   |                        | Offset                 |                        | Semi Major Axis   |                |                          | Distance                                |               |                         |                          |                            |                           | Warning |
| Measured Depth<br>(ft)                                                                      | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between Centres<br>(ft) | Between Ellipses<br>(ft) | Minimum Separation<br>(ft) | Separation Factor         |         |
| 19,200.00                                                                                   | 8,835.00               | 19,200.00              | 4,985.82               | 215.15            | 194.59         | 0.47                     | 1,024.67                                | 6,804.10      | 5,142.53                | 4,920.83                 | 221.70                     | 23.196                    |         |
| 19,308.27                                                                                   | 8,835.00               | 19,308.27              | 4,985.75               | 217.34            | 195.99         | 0.44                     | 1,027.01                                | 6,804.14      | 5,216.31                | 4,992.22                 | 224.09                     | 23.278                    |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 2922-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                                          | 0.00                | 0.00                | 0.00                | 0.50            | 5.02        | 67.10                 | 3,259.92                          | 7,715.55   | 8,376.16             |                       |                         |                   |                    |         |
| 100.00                                        | 100.00              | 38.30               | 38.30               | 0.52            | 5.03        | 67.10                 | 3,259.92                          | 7,715.55   | 8,375.97             | 8,370.43              | 5.54                    | 1,511.104         |                    |         |
| 200.00                                        | 200.00              | 138.37              | 138.37              | 0.70            | 5.03        | 67.10                 | 3,259.99                          | 7,715.61   | 8,376.05             | 8,370.32              | 5.73                    | 1,460.755         |                    |         |
| 300.00                                        | 300.00              | 262.01              | 262.01              | 0.99            | 5.07        | 67.09                 | 3,260.41                          | 7,715.32   | 8,375.97             | 8,369.91              | 6.06                    | 1,382.075         |                    |         |
| 400.00                                        | 400.00              | 400.00              | 466.75              | 1.31            | 5.16        | 67.09                 | 3,259.79                          | 7,713.68   | 8,375.12             | 8,368.65              | 6.47                    | 1,294.403         |                    |         |
| 500.00                                        | 500.00              | 624.90              | 624.85              | 1.65            | 5.40        | 67.10                 | 3,257.38                          | 7,711.17   | 8,372.94             | 8,365.89              | 7.04                    | 1,189.089         |                    |         |
| 600.00                                        | 600.00              | 685.91              | 685.85              | 1.99            | 5.48        | 67.10                 | 3,256.55                          | 7,710.23   | 8,370.99             | 8,363.52              | 7.47                    | 1,120.953         |                    |         |
| 700.00                                        | 700.00              | 763.71              | 763.63              | 2.34            | 5.60        | 67.10                 | 3,255.90                          | 7,709.20   | 8,369.43             | 8,361.50              | 7.93                    | 1,055.332         |                    |         |
| 800.00                                        | 800.00              | 874.72              | 874.63              | 2.69            | 5.78        | 67.10                 | 3,255.32                          | 7,707.69   | 8,367.98             | 8,359.52              | 8.46                    | 988.796           |                    |         |
| 900.00                                        | 900.00              | 1,003.73            | 1,003.62            | 3.04            | 6.02        | 67.10                 | 3,254.96                          | 7,705.38   | 8,366.22             | 8,357.17              | 9.05                    | 924.376           |                    |         |
| 1,000.00                                      | 1,000.00            | 1,070.14            | 1,070.02            | 3.40            | 6.15        | 67.10                 | 3,254.91                          | 7,704.17   | 8,364.51             | 8,354.97              | 9.54                    | 877.170           |                    |         |
| 1,100.00                                      | 1,100.00            | 1,360.61            | 1,360.37            | 3.75            | 6.79        | 67.10                 | 3,251.74                          | 7,697.48   | 8,362.19             | 8,351.67              | 10.52                   | 794.662           |                    |         |
| 1,200.00                                      | 1,200.00            | 1,439.83            | 1,439.53            | 4.11            | 6.99        | 67.11                 | 3,249.43                          | 7,695.28   | 8,358.50             | 8,347.43              | 11.07                   | 755.142           |                    |         |
| 1,300.00                                      | 1,300.00            | 1,515.20            | 1,514.85            | 4.46            | 7.18        | 67.12                 | 3,247.19                          | 7,693.43   | 8,355.09             | 8,343.48              | 11.61                   | 719.541           |                    |         |
| 1,400.00                                      | 1,400.00            | 1,589.22            | 1,588.82            | 4.82            | 7.37        | 67.13                 | 3,245.03                          | 7,691.85   | 8,351.98             | 8,339.82              | 12.16                   | 687.040           |                    |         |
| 1,500.00                                      | 1,500.00            | 1,716.67            | 1,716.19            | 5.18            | 7.71        | 67.14                 | 3,241.38                          | 7,689.04   | 8,348.83             | 8,335.99              | 12.85                   | 649.941           |                    |         |
| 1,600.00                                      | 1,600.00            | 1,788.89            | 1,788.36            | 5.53            | 7.91        | 67.15                 | 3,239.38                          | 7,687.45   | 8,345.72             | 8,332.32              | 13.40                   | 622.950           |                    |         |
| 1,700.00                                      | 1,700.00            | 1,920.52            | 1,919.91            | 5.89            | 8.28        | 67.17                 | 3,235.64                          | 7,684.60   | 8,342.63             | 8,328.52              | 14.12                   | 591.037           |                    |         |
| 1,800.00                                      | 1,800.00            | 2,092.57            | 2,091.81            | 6.25            | 8.79        | 67.19                 | 3,230.31                          | 7,679.94   | 8,338.98             | 8,324.02              | 14.96                   | 557.516           |                    |         |
| 1,900.00                                      | 1,900.00            | 2,177.30            | 2,176.46            | 6.61            | 9.04        | 67.20                 | 3,227.83                          | 7,677.18   | 8,334.85             | 8,319.29              | 15.56                   | 535.638           |                    |         |
| 2,000.00                                      | 2,000.00            | 2,245.49            | 2,244.59            | 6.96            | 9.25        | 67.20                 | 3,225.91                          | 7,675.14   | 8,331.01             | 8,314.89              | 16.12                   | 516.838           |                    |         |
| 2,100.00                                      | 2,099.99            | 2,316.89            | 2,315.94            | 7.32            | 9.46        | 80.03                 | 3,223.83                          | 7,673.38   | 8,327.44             | 8,310.75              | 16.69                   | 498.984           |                    |         |
| 2,200.00                                      | 2,199.96            | 2,422.33            | 2,421.30            | 7.68            | 9.79        | 80.10                 | 3,220.65                          | 7,670.85   | 8,323.61             | 8,306.24              | 17.36                   | 479.441           |                    |         |
| 2,300.00                                      | 2,299.86            | 2,500.00            | 2,498.92            | 8.04            | 10.03       | 80.17                 | 3,218.40                          | 7,669.12   | 8,319.66             | 8,301.71              | 17.95                   | 463.405           |                    |         |
| 2,400.00                                      | 2,399.68            | 2,596.25            | 2,595.11            | 8.39            | 10.33       | 80.26                 | 3,215.72                          | 7,667.08   | 8,315.59             | 8,296.99              | 18.60                   | 446.992           |                    |         |
| 2,500.00                                      | 2,499.37            | 2,691.74            | 2,690.54            | 8.75            | 10.63       | 80.37                 | 3,213.14                          | 7,665.03   | 8,311.24             | 8,291.98              | 19.25                   | 431.670           |                    |         |
| 2,600.00                                      | 2,598.90            | 2,769.79            | 2,768.55            | 9.11            | 10.87       | 80.47                 | 3,211.15                          | 7,663.42   | 8,306.75             | 8,286.90              | 19.85                   | 418.423           |                    |         |
| 2,700.00                                      | 2,698.26            | 2,836.81            | 2,835.55            | 9.46            | 10.99       | 80.57                 | 3,209.74                          | 7,662.15   | 8,302.31             | 8,281.99              | 20.32                   | 408.506           |                    |         |
| 2,800.00                                      | 2,797.40            | 2,903.16            | 2,901.87            | 9.82            | 11.10       | 80.68                 | 3,208.92                          | 7,660.95   | 8,298.00             | 8,277.21              | 20.79                   | 399.207           |                    |         |
| 2,900.00                                      | 2,896.30            | 2,989.64            | 2,988.35            | 10.18           | 11.14       | 80.81                 | 3,208.49                          | 7,659.40   | 8,293.73             | 8,272.54              | 21.18                   | 391.521           |                    |         |
| 3,000.00                                      | 2,994.93            | 3,339.89            | 3,337.93            | 10.54           | 11.27       | 81.16                 | 3,217.22                          | 7,642.24   | 8,286.78             | 8,265.12              | 21.66                   | 382.635           |                    |         |
| 3,100.00                                      | 3,093.26            | 3,440.95            | 3,438.62            | 10.90           | 11.33       | 81.31                 | 3,222.00                          | 7,635.01   | 8,279.03             | 8,256.95              | 22.08                   | 374.946           |                    |         |
| 3,195.07                                      | 3,186.42            | 3,534.95            | 3,532.27            | 11.24           | 11.40       | 81.47                 | 3,226.42                          | 7,628.27   | 8,271.42             | 8,248.92              | 22.49                   | 367.709           |                    |         |
| 3,200.00                                      | 3,191.25            | 3,539.73            | 3,537.04            | 11.26           | 11.40       | 81.48                 | 3,226.65                          | 7,627.93   | 8,271.02             | 8,248.50              | 22.52                   | 367.337           |                    |         |
| 3,300.00                                      | 3,289.08            | 3,636.61            | 3,633.57            | 11.62           | 11.48       | 81.57                 | 3,231.23                          | 7,621.00   | 8,262.92             | 8,239.96              | 22.96                   | 359.831           |                    |         |
| 3,400.00                                      | 3,386.91            | 3,734.62            | 3,731.21            | 11.98           | 11.58       | 81.66                 | 3,235.91                          | 7,613.98   | 8,254.87             | 8,231.45              | 23.42                   | 352.410           |                    |         |
| 3,500.00                                      | 3,484.74            | 3,833.44            | 3,829.65            | 12.35           | 11.68       | 81.75                 | 3,240.76                          | 7,606.86   | 8,246.84             | 8,222.95              | 23.90                   | 345.084           |                    |         |
| 3,600.00                                      | 3,582.58            | 3,928.67            | 3,924.52            | 12.72           | 11.79       | 81.84                 | 3,245.42                          | 7,600.01   | 8,238.85             | 8,214.47              | 24.38                   | 337.934           |                    |         |
| 3,700.00                                      | 3,680.41            | 3,990.40            | 3,986.02            | 13.09           | 11.86       | 81.90                 | 3,248.43                          | 7,595.68   | 8,231.07             | 8,206.23              | 24.83                   | 331.471           |                    |         |
| 3,800.00                                      | 3,778.24            | 4,056.00            | 4,051.41            | 13.46           | 11.95       | 81.96                 | 3,251.84                          | 7,591.56   | 8,223.97             | 8,198.68              | 25.29                   | 325.150           |                    |         |
| 3,900.00                                      | 3,876.08            | 4,249.14            | 4,244.02            | 13.83           | 12.22       | 82.16                 | 3,258.65                          | 7,579.19   | 8,216.20             | 8,190.27              | 25.94                   | 316.799           |                    |         |
| 4,000.00                                      | 3,973.91            | 4,278.03            | 4,272.84            | 14.21           | 12.27       | 82.20                 | 3,259.51                          | 7,577.39   | 8,208.47             | 8,182.11              | 26.36                   | 311.378           |                    |         |
| 4,100.00                                      | 4,071.74            | 4,309.23            | 4,303.98            | 14.58           | 12.31       | 82.23                 | 3,260.54                          | 7,575.67   | 8,201.58             | 8,174.79              | 26.79                   | 306.125           |                    |         |
| 4,200.00                                      | 4,169.57            | 4,341.27            | 4,335.97            | 14.96           | 12.36       | 82.26                 | 3,261.72                          | 7,574.15   | 8,195.53             | 8,168.31              | 27.22                   | 301.056           |                    |         |
| 4,300.00                                      | 4,267.41            | 4,424.01            | 4,418.56            | 15.33           | 12.50       | 82.35                 | 3,264.95                          | 7,570.58   | 8,190.00             | 8,162.27              | 27.74                   | 295.277           |                    |         |
| 4,400.00                                      | 4,365.24            | 4,521.29            | 4,515.68            | 15.71           | 12.66       | 82.46                 | 3,268.77                          | 7,566.48   | 8,184.62             | 8,156.34              | 28.28                   | 289.400           |                    |         |
| 4,500.00                                      | 4,463.07            | 4,614.27            | 4,608.51            | 16.09           | 12.82       | 82.56                 | 3,272.37                          | 7,562.62   | 8,179.29             | 8,150.46              | 28.83                   | 283.738           |                    |         |
| 4,600.00                                      | 4,560.90            | 4,713.41            | 4,707.49            | 16.47           | 13.01       | 82.67                 | 3,276.16                          | 7,558.56   | 8,174.03             | 8,144.64              | 29.39                   | 278.114           |                    |         |
| 4,700.00                                      | 4,658.74            | 4,802.74            | 4,796.69            | 16.85           | 13.18       | 82.77                 | 3,279.48                          | 7,554.98   | 8,168.84             | 8,138.90              | 29.94                   | 272.802           |                    |         |
| 4,800.00                                      | 4,756.57            | 4,800.00            | 7,752.71            | 17.23           | 27.68       | 105.91                | 609.78                            | 7,460.74   | 8,156.80             | 8,114.48              | 42.32                   | 192.750           |                    |         |
| 4,900.00                                      | 4,854.40            | 10,189.43           | 7,751.94            | 17.61           | 42.70       | 105.15                | 713.74                            | 7,458.20   | 8,124.42             | 8,066.77              | 57.65                   | 140.938           |                    |         |
| 5,000.00                                      | 4,952.23            | 10,159.12           | 7,751.39            | 17.99           | 42.31       | 104.93                | 744.03                            | 7,457.39   | 8,093.00             | 8,035.20              | 57.80                   | 140.018           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 2922-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                                      | 5,050.07            | 10,156.00           | 7,751.33            | 18.37           | 42.27       | 104.90                | 747.15                            | 7,457.31   | 8,062.65             | 8,004.36              | 58.30                   | 138.307           |                    |         |
| 5,200.00                                      | 5,147.90            | 10,156.00           | 7,751.33            | 18.75           | 42.27       | 104.90                | 747.15                            | 7,457.31   | 8,033.44             | 7,974.61              | 58.83                   | 136.556           |                    |         |
| 5,300.00                                      | 5,245.73            | 10,129.78           | 7,750.90            | 19.14           | 41.94       | 104.71                | 773.36                            | 7,456.62   | 8,005.28             | 7,946.25              | 59.03                   | 135.616           |                    |         |
| 5,400.00                                      | 5,343.56            | 10,120.36           | 7,750.78            | 19.52           | 41.82       | 104.64                | 782.77                            | 7,456.39   | 7,978.29             | 7,918.85              | 59.44                   | 134.229           |                    |         |
| 5,500.00                                      | 5,441.40            | 10,110.76           | 7,750.68            | 19.90           | 41.69       | 104.57                | 792.37                            | 7,456.15   | 7,952.44             | 7,892.60              | 59.84                   | 132.893           |                    |         |
| 5,600.00                                      | 5,539.23            | 10,100.95           | 7,750.59            | 20.29           | 41.57       | 104.50                | 802.18                            | 7,455.92   | 7,927.75             | 7,867.51              | 60.24                   | 131.607           |                    |         |
| 5,700.00                                      | 5,637.06            | 10,090.94           | 7,750.53            | 20.67           | 41.44       | 104.43                | 812.18                            | 7,455.69   | 7,904.22             | 7,843.59              | 60.63                   | 130.371           |                    |         |
| 5,800.00                                      | 5,734.90            | 10,080.72           | 7,750.48            | 21.05           | 41.31       | 104.36                | 822.41                            | 7,455.46   | 7,881.86             | 7,820.85              | 61.01                   | 129.185           |                    |         |
| 5,900.00                                      | 5,832.73            | 10,062.00           | 7,750.46            | 21.44           | 41.07       | 104.22                | 841.12                            | 7,455.05   | 7,860.70             | 7,799.42              | 61.28                   | 128.269           |                    |         |
| 6,000.00                                      | 5,930.56            | 10,058.31           | 7,750.46            | 21.83           | 41.03       | 104.19                | 844.81                            | 7,454.98   | 7,840.71             | 7,778.97              | 61.74                   | 126.993           |                    |         |
| 6,100.00                                      | 6,028.39            | 10,042.16           | 7,750.42            | 22.21           | 40.82       | 104.07                | 860.95                            | 7,454.66   | 7,821.91             | 7,759.88              | 62.04                   | 126.085           |                    |         |
| 6,200.00                                      | 6,126.23            | 10,026.70           | 7,750.31            | 22.60           | 40.63       | 103.96                | 876.41                            | 7,454.38   | 7,804.32             | 7,741.98              | 62.34                   | 125.198           |                    |         |
| 6,300.00                                      | 6,224.06            | 10,011.88           | 7,750.15            | 22.98           | 40.44       | 103.85                | 891.23                            | 7,454.13   | 7,787.93             | 7,725.29              | 62.64                   | 124.333           |                    |         |
| 6,400.00                                      | 6,321.89            | 9,997.67            | 7,749.94            | 23.37           | 40.26       | 103.75                | 905.44                            | 7,453.91   | 7,772.75             | 7,709.81              | 62.94                   | 123.493           |                    |         |
| 6,500.00                                      | 6,419.72            | 9,984.03            | 7,749.68            | 23.76           | 40.09       | 103.65                | 919.08                            | 7,453.72   | 7,758.80             | 7,695.56              | 63.25                   | 122.678           |                    |         |
| 6,600.00                                      | 6,517.56            | 9,979.70            | 7,749.59            | 24.14           | 40.04       | 103.62                | 923.40                            | 7,453.65   | 7,746.09             | 7,682.42              | 63.66                   | 121.677           |                    |         |
| 6,700.00                                      | 6,615.39            | 9,939.80            | 7,748.51            | 24.53           | 39.54       | 103.32                | 963.29                            | 7,453.17   | 7,734.60             | 7,670.98              | 63.62                   | 121.572           |                    |         |
| 6,800.00                                      | 6,713.22            | 9,903.91            | 7,747.20            | 24.92           | 39.09       | 103.06                | 999.15                            | 7,452.70   | 7,724.31             | 7,660.69              | 63.63                   | 121.402           |                    |         |
| 6,900.00                                      | 6,811.05            | 9,871.90            | 7,745.77            | 25.30           | 38.69       | 102.83                | 1,031.12                          | 7,452.24   | 7,715.23             | 7,651.56              | 63.67                   | 121.171           |                    |         |
| 7,000.00                                      | 6,908.89            | 9,849.14            | 7,744.73            | 25.69           | 38.41       | 102.66                | 1,053.86                          | 7,451.89   | 7,707.39             | 7,643.56              | 63.83                   | 120.747           |                    |         |
| 7,100.00                                      | 7,006.72            | 9,825.04            | 7,743.73            | 26.08           | 38.12       | 102.48                | 1,077.93                          | 7,451.47   | 7,700.78             | 7,636.82              | 63.97                   | 120.390           |                    |         |
| 7,200.00                                      | 7,104.55            | 9,799.48            | 7,742.80            | 26.47           | 37.80       | 102.29                | 1,103.47                          | 7,450.99   | 7,695.42             | 7,631.35              | 64.07                   | 120.103           |                    |         |
| 7,216.87                                      | 7,121.05            | 9,795.93            | 7,742.74            | 26.53           | 37.75       | 102.27                | 1,107.02                          | 7,450.92   | 7,694.64             | 7,630.54              | 64.10                   | 120.045           |                    |         |
| 7,300.00                                      | 7,202.57            | 9,773.26            | 7,741.98            | 26.85           | 37.48       | 102.05                | 1,129.67                          | 7,450.46   | 7,691.10             | 7,626.94              | 64.16                   | 119.865           |                    |         |
| 7,400.00                                      | 7,301.06            | 9,745.23            | 7,741.43            | 27.23           | 37.14       | 101.79                | 1,157.69                          | 7,449.82   | 7,687.50             | 7,623.27              | 64.22                   | 119.701           |                    |         |
| 7,500.00                                      | 7,399.97            | 9,544.41            | 7,744.75            | 27.61           | 34.72       | 100.27                | 1,358.30                          | 7,441.94   | 7,684.18             | 7,622.05              | 62.13                   | 123.679           |                    |         |
| 7,600.00                                      | 7,499.23            | 9,530.78            | 7,745.43            | 27.98           | 34.56       | 100.13                | 1,371.89                          | 7,441.24   | 7,681.71             | 7,619.37              | 62.34                   | 123.217           |                    |         |
| 7,700.00                                      | 7,598.77            | 9,517.79            | 7,746.20            | 28.34           | 34.41       | 100.01                | 1,384.85                          | 7,440.57   | 7,680.05             | 7,617.50              | 62.55                   | 122.785           |                    |         |
| 7,800.00                                      | 7,698.53            | 9,505.55            | 7,747.03            | 28.70           | 34.26       | 99.91                 | 1,397.04                          | 7,439.94   | 7,679.21             | 7,616.46              | 62.75                   | 122.380           |                    |         |
| 7,850.69                                      | 7,749.16            | 9,499.89            | 7,747.44            | 28.87           | 34.19       | 99.86                 | 1,402.68                          | 7,439.65   | 7,679.10             | 7,616.25              | 62.85                   | 122.182           |                    |         |
| 7,900.00                                      | 7,798.44            | 9,494.22            | 7,747.89            | 29.05           | 34.13       | 99.82                 | 1,408.32                          | 7,439.36   | 7,679.20             | 7,616.26              | 62.95                   | 121.997           |                    |         |
| 8,000.00                                      | 7,898.42            | 9,484.78            | 7,748.63            | 29.39           | 34.02       | 99.76                 | 1,417.72                          | 7,438.87   | 7,680.04             | 7,616.88              | 63.15                   | 121.611           |                    |         |
| 8,013.58                                      | 7,912.00            | 9,483.71            | 7,748.71            | 29.43           | 34.01       | 96.98                 | 1,418.79                          | 7,438.82   | 7,680.22             | 7,617.03              | 63.18                   | 121.557           |                    |         |
| 8,100.00                                      | 7,998.42            | 9,477.10            | 7,749.22            | 29.73           | 33.93       | 86.93                 | 1,425.36                          | 7,438.48   | 7,681.89             | 7,618.52              | 63.37                   | 121.225           |                    |         |
| 8,200.00                                      | 8,098.42            | 9,469.60            | 7,749.80            | 30.07           | 33.84       | 86.87                 | 1,432.84                          | 7,438.09   | 7,685.02             | 7,621.44              | 63.58                   | 120.872           |                    |         |
| 8,300.00                                      | 8,198.42            | 9,462.23            | 7,750.36            | 30.41           | 33.76       | 86.82                 | 1,440.17                          | 7,437.71   | 7,689.45             | 7,625.67              | 63.79                   | 120.552           |                    |         |
| 8,363.62                                      | 8,262.04            | 9,457.62            | 7,750.71            | 30.62           | 33.70       | 86.78                 | 1,444.77                          | 7,437.47   | 7,692.94             | 7,629.03              | 63.91                   | 120.365           |                    |         |
| 8,400.00                                      | 8,298.40            | 9,455.06            | 7,750.90            | 30.75           | 33.67       | -2.89                 | 1,447.32                          | 7,437.34   | 7,694.02             | 7,630.04              | 63.98                   | 120.252           |                    |         |
| 8,450.00                                      | 8,348.10            | 9,451.74            | 7,751.15            | 30.91           | 33.63       | -2.92                 | 1,450.62                          | 7,437.17   | 7,692.02             | 7,627.95              | 64.07                   | 120.051           |                    |         |
| 8,500.00                                      | 8,397.14            | 9,448.70            | 7,751.38            | 31.07           | 33.60       | -2.98                 | 1,453.65                          | 7,437.01   | 7,686.00             | 7,621.83              | 64.16                   | 119.792           |                    |         |
| 8,550.00                                      | 8,445.15            | 9,445.93            | 7,751.58            | 31.23           | 33.57       | -3.05                 | 1,456.41                          | 7,436.87   | 7,675.99             | 7,611.74              | 64.25                   | 119.478           |                    |         |
| 8,600.00                                      | 8,491.77            | 9,443.46            | 7,751.77            | 31.38           | 33.54       | -3.15                 | 1,458.87                          | 7,436.74   | 7,662.06             | 7,597.74              | 64.33                   | 119.113           |                    |         |
| 8,650.00                                      | 8,536.65            | 9,441.30            | 7,751.93            | 31.52           | 33.51       | -3.27                 | 1,461.02                          | 7,436.63   | 7,644.30             | 7,579.90              | 64.40                   | 118.699           |                    |         |
| 8,700.00                                      | 8,579.43            | 9,439.46            | 7,752.06            | 31.66           | 33.49       | -3.43                 | 1,462.85                          | 7,436.54   | 7,622.80             | 7,558.34              | 64.47                   | 118.240           |                    |         |
| 8,750.00                                      | 8,619.80            | 9,437.96            | 7,752.17            | 31.80           | 33.47       | -3.62                 | 1,464.35                          | 7,436.46   | 7,597.72             | 7,533.19              | 64.53                   | 117.739           |                    |         |
| 8,800.00                                      | 8,657.44            | 9,436.79            | 7,752.26            | 31.93           | 33.46       | -3.86                 | 1,465.51                          | 7,436.40   | 7,569.19             | 7,504.61              | 64.58                   | 117.198           |                    |         |
| 8,850.00                                      | 8,692.08            | 9,435.97            | 7,752.32            | 32.06           | 33.45       | -4.15                 | 1,466.33                          | 7,436.36   | 7,537.41             | 7,472.77              | 64.63                   | 116.620           |                    |         |
| 8,900.00                                      | 8,723.44            | 9,435.49            | 7,752.35            | 32.19           | 33.44       | -4.53                 | 1,466.81                          | 7,436.33   | 7,502.56             | 7,437.89              | 64.67                   | 116.008           |                    |         |
| 8,950.00                                      | 8,751.29            | 9,435.36            | 7,752.36            | 32.34           | 33.44       | -5.00                 | 1,466.94                          | 7,436.33   | 7,464.89             | 7,400.18              | 64.71                   | 115.365           |                    |         |
| 9,000.00                                      | 8,775.42            | 9,435.57            | 7,752.35            | 32.50           | 33.45       | -5.63                 | 1,466.73                          | 7,436.34   | 7,424.63             | 7,359.90              | 64.74                   | 114.692           |                    |         |
| 9,050.00                                      | 8,795.64            | 9,436.12            | 7,752.31            | 32.67           | 33.45       | -6.48                 | 1,466.18                          | 7,436.36   | 7,382.05             | 7,317.29              | 64.76                   | 113.993           |                    |         |
| 9,100.00                                      | 8,811.80            | 9,437.00            | 7,752.24            | 32.87           | 33.46       | -7.69                 | 1,465.30                          | 7,436.41   | 7,337.44             | 7,272.66              | 64.78                   | 113.270           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 2922-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,150.00                                      | 8,823.77            | 9,438.21            | 7,752.15            | 33.10           | 33.48       | -9.51                 | 1,464.09                          | 7,436.47   | 7,291.10             | 7,226.30              | 64.79                   | 112.526           |                    |         |
| 9,200.00                                      | 8,831.47            | 9,439.74            | 7,752.04            | 33.34           | 33.49       | -12.56                | 1,462.57                          | 7,436.55   | 7,243.35             | 7,178.54              | 64.81                   | 111.763           |                    |         |
| 9,250.00                                      | 8,834.84            | 9,441.58            | 7,751.90            | 33.60           | 33.52       | -18.57                | 1,460.74                          | 7,436.65   | 7,194.54             | 7,129.72              | 64.83                   | 110.982           |                    |         |
| 9,263.62                                      | 8,835.00            | 9,442.13            | 7,751.86            | 33.67           | 33.52       | -21.34                | 1,460.19                          | 7,436.67   | 7,181.11             | 7,116.28              | 64.83                   | 110.765           |                    |         |
| 9,300.00                                      | 8,835.00            | 9,443.64            | 7,751.75            | 33.88           | 33.54       | -21.26                | 1,458.69                          | 7,436.75   | 7,145.16             | 7,080.32              | 64.84                   | 110.191           |                    |         |
| 9,400.00                                      | 8,835.00            | 9,447.78            | 7,751.45            | 34.53           | 33.59       | -21.05                | 1,454.57                          | 7,436.97   | 7,046.37             | 6,981.49              | 64.87                   | 108.616           |                    |         |
| 9,500.00                                      | 8,835.00            | 9,451.91            | 7,751.14            | 35.30           | 33.64       | -20.85                | 1,450.45                          | 7,437.18   | 6,947.61             | 6,882.70              | 64.91                   | 107.042           |                    |         |
| 9,600.00                                      | 8,835.00            | 9,456.05            | 7,750.83            | 36.17           | 33.68       | -20.64                | 1,446.33                          | 7,437.39   | 6,848.88             | 6,783.94              | 64.94                   | 105.467           |                    |         |
| 9,700.00                                      | 8,835.00            | 9,460.19            | 7,750.52            | 37.13           | 33.73       | -20.43                | 1,442.21                          | 7,437.60   | 6,750.19             | 6,685.22              | 64.97                   | 103.893           |                    |         |
| 9,800.00                                      | 8,835.00            | 9,464.32            | 7,750.20            | 38.18           | 33.78       | -20.23                | 1,438.09                          | 7,437.82   | 6,651.53             | 6,586.53              | 65.01                   | 102.320           |                    |         |
| 9,900.00                                      | 8,835.00            | 9,468.46            | 7,749.89            | 39.31           | 33.83       | -20.02                | 1,433.97                          | 7,438.03   | 6,552.92             | 6,487.87              | 65.04                   | 100.747           |                    |         |
| 10,000.00                                     | 8,835.00            | 9,472.60            | 7,749.57            | 40.51           | 33.88       | -19.81                | 1,429.85                          | 7,438.24   | 6,454.34             | 6,389.26              | 65.08                   | 99.175            |                    |         |
| 10,100.00                                     | 8,835.00            | 9,476.73            | 7,749.25            | 41.78           | 33.92       | -19.60                | 1,425.73                          | 7,438.46   | 6,355.80             | 6,290.68              | 65.12                   | 97.603            |                    |         |
| 10,200.00                                     | 8,835.00            | 9,480.87            | 7,748.93            | 43.10           | 33.97       | -19.39                | 1,421.62                          | 7,438.67   | 6,257.31             | 6,192.15              | 65.16                   | 96.032            |                    |         |
| 10,300.00                                     | 8,835.00            | 9,485.00            | 7,748.61            | 44.49           | 34.02       | -19.18                | 1,417.50                          | 7,438.88   | 6,158.86             | 6,093.66              | 65.20                   | 94.462            |                    |         |
| 10,400.00                                     | 8,835.00            | 9,489.14            | 7,748.29            | 45.92           | 34.07       | -18.97                | 1,413.38                          | 7,439.10   | 6,060.46             | 5,995.22              | 65.24                   | 92.894            |                    |         |
| 10,500.00                                     | 8,835.00            | 9,493.27            | 7,747.96            | 47.39           | 34.12       | -18.76                | 1,409.27                          | 7,439.31   | 5,962.11             | 5,896.83              | 65.28                   | 91.326            |                    |         |
| 10,600.00                                     | 8,835.00            | 9,503.84            | 7,747.15            | 48.91           | 34.24       | -18.22                | 1,398.75                          | 7,439.85   | 5,863.81             | 5,798.41              | 65.40                   | 89.656            |                    |         |
| 10,700.00                                     | 8,835.00            | 9,519.05            | 7,746.12            | 50.47           | 34.42       | -17.44                | 1,383.59                          | 7,440.64   | 5,765.56             | 5,699.98              | 65.58                   | 87.920            |                    |         |
| 10,800.00                                     | 8,835.00            | 9,534.27            | 7,745.25            | 52.06           | 34.60       | -16.65                | 1,368.41                          | 7,441.42   | 5,667.36             | 5,601.61              | 65.75                   | 86.193            |                    |         |
| 10,900.00                                     | 8,835.00            | 10,900.00           | 7,741.95            | 53.68           | 51.24       | -5.66                 | 1,162.37                          | 7,449.60   | 5,569.04             | 5,486.87              | 82.17                   | 67.774            |                    |         |
| 11,000.00                                     | 8,835.00            | 11,000.00           | 7,741.95            | 55.32           | 52.46       | -5.55                 | 1,160.41                          | 7,449.65   | 5,470.83             | 5,387.47              | 83.36                   | 65.626            |                    |         |
| 11,100.00                                     | 8,835.00            | 9,815.09            | 7,743.36            | 57.00           | 37.99       | -1.56                 | 1,087.87                          | 7,451.29   | 5,372.74             | 5,303.66              | 69.08                   | 77.780            |                    |         |
| 11,200.00                                     | 8,835.00            | 9,817.79            | 7,743.46            | 58.70           | 38.03       | -1.41                 | 1,085.17                          | 7,451.34   | 5,274.64             | 5,205.54              | 69.10                   | 76.333            |                    |         |
| 11,300.00                                     | 8,835.00            | 9,820.42            | 7,743.56            | 60.41           | 38.06       | -1.26                 | 1,082.55                          | 7,451.39   | 5,176.62             | 5,107.49              | 69.12                   | 74.888            |                    |         |
| 11,400.00                                     | 8,835.00            | 9,822.97            | 7,743.65            | 62.15           | 38.09       | -1.12                 | 1,079.99                          | 7,451.44   | 5,078.67             | 5,009.52              | 69.15                   | 73.445            |                    |         |
| 11,500.00                                     | 8,835.00            | 9,825.46            | 7,743.75            | 63.91           | 38.12       | -0.98                 | 1,077.51                          | 7,451.48   | 4,980.81             | 4,911.63              | 69.17                   | 72.004            |                    |         |
| 11,600.00                                     | 8,835.00            | 9,827.89            | 7,743.85            | 65.69           | 38.15       | -0.85                 | 1,075.09                          | 7,451.52   | 4,883.03             | 4,813.83              | 69.20                   | 70.566            |                    |         |
| 11,700.00                                     | 8,835.00            | 9,830.25            | 7,743.94            | 67.47           | 38.18       | -0.72                 | 1,072.73                          | 7,451.57   | 4,785.34             | 4,716.12              | 69.22                   | 69.130            |                    |         |
| 11,800.00                                     | 8,835.00            | 9,832.55            | 7,744.03            | 69.28           | 38.21       | -0.59                 | 1,070.43                          | 7,451.61   | 4,687.75             | 4,618.50              | 69.25                   | 67.696            |                    |         |
| 11,900.00                                     | 8,835.00            | 9,834.79            | 7,744.12            | 71.09           | 38.24       | -0.47                 | 1,068.19                          | 7,451.65   | 4,590.26             | 4,520.99              | 69.27                   | 66.264            |                    |         |
| 12,000.00                                     | 8,835.00            | 9,836.98            | 7,744.21            | 72.92           | 38.26       | -0.35                 | 1,066.00                          | 7,451.68   | 4,492.88             | 4,423.59              | 69.30                   | 64.835            |                    |         |
| 12,100.00                                     | 8,835.00            | 9,839.11            | 7,744.30            | 74.76           | 38.29       | -0.23                 | 1,063.87                          | 7,451.72   | 4,395.62             | 4,326.30              | 69.32                   | 63.408            |                    |         |
| 12,200.00                                     | 8,835.00            | 9,841.19            | 7,744.39            | 76.61           | 38.31       | -0.11                 | 1,061.79                          | 7,451.75   | 4,298.49             | 4,229.14              | 69.35                   | 61.983            |                    |         |
| 12,300.00                                     | 8,835.00            | 9,843.23            | 7,744.48            | 78.47           | 38.34       | 0.00                  | 1,059.76                          | 7,451.79   | 4,201.48             | 4,132.11              | 69.38                   | 60.560            |                    |         |
| 12,400.00                                     | 8,835.00            | 9,845.21            | 7,744.56            | 80.34           | 38.36       | 0.11                  | 1,057.78                          | 7,451.82   | 4,104.63             | 4,035.22              | 69.41                   | 59.139            |                    |         |
| 12,500.00                                     | 8,835.00            | 9,847.15            | 7,744.64            | 82.22           | 38.39       | 0.22                  | 1,055.84                          | 7,451.85   | 4,007.92             | 3,938.48              | 69.44                   | 57.721            |                    |         |
| 12,600.00                                     | 8,835.00            | 9,849.04            | 7,744.73            | 84.11           | 38.41       | 0.32                  | 1,053.95                          | 7,451.88   | 3,911.38             | 3,841.91              | 69.47                   | 56.305            |                    |         |
| 12,700.00                                     | 8,835.00            | 9,850.89            | 7,744.81            | 86.00           | 38.43       | 0.43                  | 1,052.11                          | 7,451.92   | 3,815.02             | 3,745.52              | 69.50                   | 54.891            |                    |         |
| 12,800.00                                     | 8,835.00            | 9,852.70            | 7,744.89            | 87.90           | 38.46       | 0.53                  | 1,050.30                          | 7,451.94   | 3,718.85             | 3,649.31              | 69.54                   | 53.480            |                    |         |
| 12,900.00                                     | 8,835.00            | 9,854.46            | 7,744.97            | 89.81           | 38.48       | 0.62                  | 1,048.53                          | 7,451.97   | 3,622.88             | 3,553.31              | 69.58                   | 52.071            |                    |         |
| 13,000.00                                     | 8,835.00            | 9,856.19            | 7,745.04            | 91.72           | 38.50       | 0.72                  | 1,046.81                          | 7,452.00   | 3,527.15             | 3,457.53              | 69.62                   | 50.664            |                    |         |
| 13,100.00                                     | 8,835.00            | 9,857.88            | 7,745.12            | 93.64           | 38.52       | 0.81                  | 1,045.12                          | 7,452.03   | 3,431.65             | 3,361.98              | 69.66                   | 49.260            |                    |         |
| 13,200.00                                     | 8,835.00            | 9,859.54            | 7,745.20            | 95.56           | 38.54       | 0.91                  | 1,043.47                          | 7,452.05   | 3,336.41             | 3,266.70              | 69.71                   | 47.859            |                    |         |
| 13,300.00                                     | 8,835.00            | 9,861.15            | 7,745.27            | 97.49           | 38.56       | 1.00                  | 1,041.85                          | 7,452.08   | 3,241.47             | 3,171.70              | 69.77                   | 46.460            |                    |         |
| 13,400.00                                     | 8,835.00            | 9,862.74            | 7,745.34            | 99.42           | 38.58       | 1.08                  | 1,040.27                          | 7,452.10   | 3,146.83             | 3,077.00              | 69.83                   | 45.065            |                    |         |
| 13,500.00                                     | 8,835.00            | 9,864.29            | 7,745.41            | 101.36          | 38.60       | 1.17                  | 1,038.72                          | 7,452.13   | 3,052.54             | 2,982.64              | 69.90                   | 43.672            |                    |         |
| 13,600.00                                     | 8,835.00            | 9,865.81            | 7,745.49            | 103.30          | 38.62       | 1.25                  | 1,037.20                          | 7,452.15   | 2,958.62             | 2,888.65              | 69.97                   | 42.283            |                    |         |
| 13,700.00                                     | 8,835.00            | 9,867.30            | 7,745.56            | 105.25          | 38.64       | 1.34                  | 1,035.72                          | 7,452.17   | 2,865.11             | 2,795.05              | 70.06                   | 40.897            |                    |         |
| 13,800.00                                     | 8,835.00            | 9,868.75            | 7,745.62            | 107.20          | 38.65       | 1.42                  | 1,034.26                          | 7,452.19   | 2,772.06             | 2,701.90              | 70.15                   | 39.515            |                    |         |
| 13,900.00                                     | 8,835.00            | 9,870.18            | 7,745.69            | 109.15          | 38.67       | 1.50                  | 1,032.84                          | 7,452.22   | 2,679.50             | 2,609.24              | 70.26                   | 38.137            |                    |         |
| 14,000.00                                     | 8,835.00            | 9,871.58            | 7,745.76            | 111.10          | 38.69       | 1.57                  | 1,031.44                          | 7,452.24   | 2,587.50             | 2,517.12              | 70.38                   | 36.763            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 2922-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 14,100.00                                     | 8,835.00            | 9,872.95            | 7,745.83            | 113.06          | 38.71       | 1.65                  | 1,030.07                          | 7,452.26   | 2,496.11             | 2,425.59              | 70.52                   | 35.395            |                    |         |
| 14,200.00                                     | 8,835.00            | 9,874.30            | 7,745.89            | 115.03          | 38.72       | 1.72                  | 1,028.72                          | 7,452.28   | 2,405.41             | 2,334.73              | 70.68                   | 34.033            |                    |         |
| 14,300.00                                     | 8,835.00            | 9,875.62            | 7,745.96            | 116.99          | 38.74       | 1.80                  | 1,027.41                          | 7,452.30   | 2,315.48             | 2,244.62              | 70.86                   | 32.677            |                    |         |
| 14,400.00                                     | 8,835.00            | 9,876.91            | 7,746.02            | 118.96          | 38.75       | 1.87                  | 1,026.12                          | 7,452.32   | 2,226.40             | 2,155.33              | 71.07                   | 31.329            |                    |         |
| 14,500.00                                     | 8,835.00            | 9,878.18            | 7,746.08            | 120.93          | 38.77       | 1.94                  | 1,024.85                          | 7,452.33   | 2,138.29             | 2,066.99              | 71.30                   | 29.990            |                    |         |
| 14,600.00                                     | 8,835.00            | 9,879.43            | 7,746.14            | 122.90          | 38.79       | 2.01                  | 1,023.60                          | 7,452.35   | 2,051.26             | 1,979.69              | 71.57                   | 28.662            |                    |         |
| 14,700.00                                     | 8,835.00            | 9,880.65            | 7,746.20            | 124.88          | 38.80       | 2.08                  | 1,022.38                          | 7,452.37   | 1,965.47             | 1,893.60              | 71.87                   | 27.346            |                    |         |
| 14,800.00                                     | 8,835.00            | 9,881.85            | 7,746.26            | 126.86          | 38.82       | 2.14                  | 1,021.18                          | 7,452.39   | 1,881.09             | 1,808.87              | 72.22                   | 26.046            |                    |         |
| 14,900.00                                     | 8,835.00            | 9,883.03            | 7,746.32            | 128.84          | 38.83       | 2.21                  | 1,020.01                          | 7,452.40   | 1,798.31             | 1,725.69              | 72.62                   | 24.764            |                    |         |
| 15,000.00                                     | 8,835.00            | 9,884.18            | 7,746.38            | 130.82          | 38.84       | 2.27                  | 1,018.85                          | 7,452.42   | 1,717.36             | 1,644.29              | 73.07                   | 23.504            |                    |         |
| 15,100.00                                     | 8,835.00            | 9,885.32            | 7,746.44            | 132.80          | 38.86       | 2.34                  | 1,017.72                          | 7,452.44   | 1,638.51             | 1,564.94              | 73.57                   | 22.271            |                    |         |
| 15,200.00                                     | 8,835.00            | 9,886.43            | 7,746.49            | 134.79          | 38.87       | 2.40                  | 1,016.61                          | 7,452.45   | 1,562.09             | 1,487.95              | 74.14                   | 21.070            |                    |         |
| 15,300.00                                     | 8,835.00            | 9,887.53            | 7,746.55            | 136.78          | 38.89       | 2.46                  | 1,015.51                          | 7,452.47   | 1,488.46             | 1,413.70              | 74.77                   | 19.908            |                    |         |
| 15,400.00                                     | 8,835.00            | 9,888.61            | 7,746.61            | 138.76          | 38.90       | 2.52                  | 1,014.44                          | 7,452.48   | 1,418.07             | 1,342.61              | 75.46                   | 18.793            |                    |         |
| 15,500.00                                     | 8,835.00            | 9,889.66            | 7,746.66            | 140.76          | 38.91       | 2.58                  | 1,013.38                          | 7,452.50   | 1,351.41             | 1,275.20              | 76.21                   | 17.732            |                    |         |
| 15,600.00                                     | 8,835.00            | 9,890.70            | 7,746.71            | 142.75          | 38.92       | 2.64                  | 1,012.34                          | 7,452.51   | 1,289.08             | 1,212.06              | 77.02                   | 16.737            |                    |         |
| 15,700.00                                     | 8,835.00            | 9,891.73            | 7,746.77            | 144.74          | 38.94       | 2.69                  | 1,011.32                          | 7,452.52   | 1,231.71             | 1,153.84              | 77.87                   | 15.817            |                    |         |
| 15,800.00                                     | 8,835.00            | 9,892.73            | 7,746.82            | 146.74          | 38.96       | 2.74                  | 1,010.31                          | 7,452.53   | 1,174.44             | 1,096.54              | 78.77                   | 14.950            |                    |         |
| 15,900.00                                     | 8,835.00            | 9,893.70            | 7,746.87            | 148.73          | 38.97       | 2.79                  | 1,009.31                          | 7,452.54   | 1,117.14             | 1,039.24              | 79.72                   | 14.136            |                    |         |
| 16,000.00                                     | 8,835.00            | 9,894.65            | 7,746.92            | 150.73          | 38.98       | 2.84                  | 1,008.31                          | 7,452.55   | 1,059.84             | 981.94                | 80.72                   | 13.362            |                    |         |
| 16,100.00                                     | 8,835.00            | 9,895.58            | 7,746.97            | 152.73          | 38.99       | 2.89                  | 1,007.31                          | 7,452.56   | 1,002.54             | 924.64                | 81.77                   | 12.627            |                    |         |
| 16,200.00                                     | 8,835.00            | 9,896.49            | 7,747.02            | 154.73          | 38.99       | 2.94                  | 1,006.31                          | 7,452.57   | 945.24               | 867.34                | 82.87                   | 11.932            |                    |         |
| 16,300.00                                     | 8,835.00            | 9,897.38            | 7,747.07            | 156.73          | 38.99       | 2.99                  | 1,005.31                          | 7,452.58   | 885.84               | 809.84                | 84.02                   | 11.277            |                    |         |
| 16,373.02                                     | 8,835.00            | 9,898.06            | 7,747.10            | 158.20          | 38.99       | 3.04                  | 1,004.31                          | 7,452.59   | 818.34               | 742.34                | 85.22                   | 10.652            |                    |         |
| 16,400.00                                     | 8,835.00            | 9,898.24            | 7,747.12            | 158.74          | 38.99       | 3.05                  | 1,003.31                          | 7,452.60   | 750.84               | 674.84                | 86.32                   | 10.057            |                    |         |
| 16,500.00                                     | 8,835.00            | 9,898.90            | 7,747.14            | 160.74          | 38.99       | 3.09                  | 1,002.31                          | 7,452.61   | 683.34               | 607.34                | 87.42                   | 9.482             |                    |         |
| 16,600.00                                     | 8,835.00            | 9,899.56            | 7,747.16            | 162.74          | 38.99       | 3.13                  | 1,001.31                          | 7,452.62   | 615.84               | 539.84                | 88.52                   | 8.927             |                    |         |
| 16,700.00                                     | 8,835.00            | 9,899.99            | 7,747.18            | 164.75          | 38.99       | 3.17                  | 1,000.31                          | 7,452.63   | 548.34               | 472.34                | 89.62                   | 8.382             |                    |         |
| 16,800.00                                     | 8,835.00            | 9,899.99            | 7,747.19            | 166.76          | 38.99       | 3.21                  | 999.31                            | 7,452.64   | 480.84               | 404.84                | 90.72                   | 7.847             |                    |         |
| 16,900.00                                     | 8,835.00            | 9,899.99            | 7,747.20            | 168.77          | 38.99       | 3.25                  | 998.31                            | 7,452.65   | 413.34               | 337.34                | 91.82                   | 7.322             |                    |         |
| 17,000.00                                     | 8,835.00            | 9,899.99            | 7,747.21            | 170.77          | 38.99       | 3.29                  | 997.31                            | 7,452.66   | 345.84               | 269.84                | 92.92                   | 6.807             |                    |         |
| 17,100.00                                     | 8,835.00            | 9,899.99            | 7,747.22            | 172.78          | 38.99       | 3.33                  | 996.31                            | 7,452.67   | 278.34               | 202.34                | 94.02                   | 6.302             |                    |         |
| 17,200.00                                     | 8,835.00            | 9,899.99            | 7,747.23            | 174.79          | 38.99       | 3.37                  | 995.31                            | 7,452.68   | 210.84               | 134.84                | 95.12                   | 5.807             |                    |         |
| 17,300.00                                     | 8,835.00            | 9,899.99            | 7,747.24            | 176.81          | 38.99       | 3.41                  | 994.31                            | 7,452.69   | 143.34               | 67.34                 | 96.22                   | 5.322             |                    |         |
| 17,400.00                                     | 8,835.00            | 9,899.99            | 7,747.25            | 178.82          | 38.99       | 3.45                  | 993.31                            | 7,452.70   | 75.84                | 0.84                  | 97.32                   | 4.847             |                    |         |
| 17,500.00                                     | 8,835.00            | 9,899.99            | 7,747.26            | 180.83          | 38.99       | 3.49                  | 992.31                            | 7,452.71   | 8.34                 | -67.34                | 98.42                   | 4.372             |                    |         |
| 17,600.00                                     | 8,835.00            | 9,899.99            | 7,747.27            | 182.84          | 38.99       | 3.53                  | 991.31                            | 7,452.72   | -60.84               | -134.84               | 99.52                   | 3.897             |                    |         |
| 17,700.00                                     | 8,835.00            | 9,899.99            | 7,747.28            | 184.86          | 38.99       | 3.57                  | 990.31                            | 7,452.73   | -128.34              | -202.34               | 100.62                  | 3.422             |                    |         |
| 17,800.00                                     | 8,835.00            | 9,899.99            | 7,747.29            | 186.87          | 38.99       | 3.61                  | 989.31                            | 7,452.74   | -190.84              | -270.84               | 101.72                  | 2.947             |                    |         |
| 17,900.00                                     | 8,835.00            | 9,899.99            | 7,747.30            | 188.89          | 38.99       | 3.65                  | 988.31                            | 7,452.75   | -253.34              | -338.84               | 102.82                  | 2.472             |                    |         |
| 18,000.00                                     | 8,835.00            | 9,899.99            | 7,747.31            | 190.91          | 38.99       | 3.69                  | 987.31                            | 7,452.76   | -315.84              | -406.84               | 103.92                  | 2.007             |                    |         |
| 18,100.00                                     | 8,835.00            | 9,900.04            | 7,747.32            | 192.92          | 38.99       | 3.73                  | 986.31                            | 7,452.77   | -378.34              | -474.84               | 105.02                  | 1.532             |                    |         |
| 18,200.00                                     | 8,835.00            | 9,900.65            | 7,747.33            | 194.94          | 38.99       | 3.77                  | 985.31                            | 7,452.78   | -440.84              | -542.84               | 106.12                  | 1.057             |                    |         |
| 18,300.00                                     | 8,835.00            | 9,901.25            | 7,747.34            | 196.96          | 38.99       | 3.81                  | 984.31                            | 7,452.79   | -503.34              | -610.84               | 107.22                  | 0.582             |                    |         |
| 18,400.00                                     | 8,835.00            | 9,901.85            | 7,747.35            | 198.98          | 38.99       | 3.85                  | 983.31                            | 7,452.80   | -565.84              | -678.84               | 108.32                  | 0.107             |                    |         |
| 18,500.00                                     | 8,835.00            | 9,902.45            | 7,747.36            | 201.00          | 38.99       | 3.89                  | 982.31                            | 7,452.81   | -628.34              | -746.84               | 109.42                  | 0.002             |                    |         |
| 18,600.00                                     | 8,835.00            | 9,903.04            | 7,747.37            | 203.02          | 38.99       | 3.93                  | 981.31                            | 7,452.82   | -690.84              | -814.84               | 110.52                  | -0.473            |                    |         |
| 18,700.00                                     | 8,835.00            | 9,903.63            | 7,747.38            | 205.04          | 38.99       | 3.97                  | 980.31                            | 7,452.83   | -753.34              | -882.84               | 111.62                  | -0.998            |                    |         |
| 18,800.00                                     | 8,835.00            | 9,904.22            | 7,747.39            | 207.06          | 38.99       | 4.01                  | 979.31                            | 7,452.84   | -815.84              | -950.84               | 112.72                  | -1.523            |                    |         |
| 18,900.00                                     | 8,835.00            | 9,904.80            | 7,747.40            | 209.08          | 38.99       | 4.05                  | 978.31                            | 7,452.85   | -878.34              | -1,018.84             | 113.82                  | -2.048            |                    |         |
| 19,000.00                                     | 8,835.00            | 9,905.39            | 7,747.41            | 211.10          | 38.99       | 4.09                  | 977.31                            | 7,452.86   | -940.84              | -1,086.84             | 114.92                  | -2.573            |                    |         |
| 19,100.00                                     | 8,835.00            | 9,905.97            | 7,747.42            | 213.12          | 38.99       | 4.13                  | 976.31                            | 7,452.87   | -1,003.34            | -1,154.84             | 116.02                  | -3.098            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw State 7H - Wellbore #1 - Wellbore #1 |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Site Error:</b> | 5.00 ft |
|---------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|-----------------------------------------|---------------|-------------------------|--------------------------|----------------------------|---------------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 2922-MWD+HDGM                                               |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                   |                        | Offset                 |                        | Semi Major Axis   |                |                          | Distance                                |               |                         |                          |                            |                           | Warning |
| Measured Depth<br>(ft)                                                                      | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between Centres<br>(ft) | Between Ellipses<br>(ft) | Minimum Separation<br>(ft) | Separation Factor         |         |
| 19,200.00                                                                                   | 8,835.00               | 9,906.54               | 7,747.31               | 215.15            | 39.12          | 3.52                     | 996.51                                  | 7,452.74      | 3,009.27                | 2,924.71                 | 84.56                      | 35.588                    |         |
| 19,308.27                                                                                   | 8,835.00               | 9,907.16               | 7,747.34               | 217.34            | 39.13          | 3.55                     | 995.89                                  | 7,452.75      | 3,111.20                | 3,026.80                 | 84.40                      | 36.864                    |         |



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 80-GYRO-NS-CT, 4361-MWD+HDMG |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                                         | 0.00                | 0.00                | 0.00                | 0.50            | 5.02        | 61.82                 | 3,098.47                          | 5,783.09   | 6,561.05             |                       |                         |                   |                    |         |
| 100.00                                       | 100.00              | 44.15               | 44.15               | 0.52            | 5.03        | 61.82                 | 3,098.46                          | 5,783.11   | 6,560.86             | 6,555.31              | 5.54                    | 1,183.637         |                    |         |
| 200.00                                       | 200.00              | 139.73              | 139.73              | 0.70            | 5.03        | 61.82                 | 3,098.39                          | 5,783.26   | 6,560.96             | 6,555.23              | 5.74                    | 1,143.782         |                    |         |
| 300.00                                       | 300.00              | 235.12              | 235.12              | 0.99            | 5.07        | 61.82                 | 3,098.28                          | 5,783.49   | 6,561.12             | 6,555.07              | 6.05                    | 1,084.034         |                    |         |
| 400.00                                       | 400.00              | 332.24              | 332.24              | 1.31            | 5.12        | 61.82                 | 3,098.14                          | 5,783.82   | 6,561.35             | 6,554.92              | 6.43                    | 1,020.730         |                    |         |
| 500.00                                       | 500.00              | 425.78              | 425.77              | 1.65            | 5.19        | 61.83                 | 3,097.94                          | 5,784.22   | 6,561.63             | 6,554.79              | 6.84                    | 959.655           |                    |         |
| 600.00                                       | 600.00              | 519.62              | 519.61              | 1.99            | 5.28        | 61.83                 | 3,097.68                          | 5,784.79   | 6,562.03             | 6,554.75              | 7.27                    | 902.111           |                    |         |
| 700.00                                       | 700.00              | 610.56              | 610.55              | 2.34            | 5.39        | 61.84                 | 3,097.30                          | 5,785.50   | 6,562.52             | 6,554.79              | 7.73                    | 849.000           |                    |         |
| 800.00                                       | 800.00              | 709.60              | 709.59              | 2.69            | 5.53        | 61.85                 | 3,096.77                          | 5,786.47   | 6,563.13             | 6,554.92              | 8.22                    | 798.807           |                    |         |
| 900.00                                       | 900.00              | 805.23              | 805.20              | 3.04            | 5.68        | 61.86                 | 3,095.91                          | 5,787.58   | 6,563.73             | 6,555.01              | 8.72                    | 752.979           |                    |         |
| 1,000.00                                     | 1,000.00            | 893.68              | 893.64              | 3.40            | 5.83        | 61.87                 | 3,094.99                          | 5,788.81   | 6,564.47             | 6,555.24              | 9.22                    | 711.818           |                    |         |
| 1,100.00                                     | 1,100.00            | 984.35              | 984.29              | 3.75            | 5.99        | 61.88                 | 3,093.88                          | 5,790.34   | 6,565.38             | 6,555.64              | 9.75                    | 673.708           |                    |         |
| 1,200.00                                     | 1,200.00            | 1,087.89            | 1,087.80            | 4.11            | 6.20        | 61.90                 | 3,092.43                          | 5,792.27   | 6,566.36             | 6,556.05              | 10.31                   | 637.046           |                    |         |
| 1,300.00                                     | 1,300.00            | 1,199.53            | 1,199.40            | 4.46            | 6.44        | 61.93                 | 3,090.37                          | 5,794.42   | 6,567.19             | 6,556.29              | 10.90                   | 602.295           |                    |         |
| 1,400.00                                     | 1,400.00            | 1,308.67            | 1,308.48            | 4.82            | 6.69        | 61.96                 | 3,087.61                          | 5,796.72   | 6,567.86             | 6,556.35              | 11.51                   | 570.577           |                    |         |
| 1,500.00                                     | 1,500.00            | 8,298.97            | 4,955.97            | 5.18            | 53.99       | 95.38                 | -517.11                           | 5,495.56   | 6,540.11             | 6,487.52              | 52.59                   | 124.363           |                    |         |
| 1,600.00                                     | 1,600.00            | 8,329.00            | 4,956.38            | 5.53            | 54.40       | 95.69                 | -546.99                           | 5,492.67   | 6,487.24             | 6,433.70              | 53.54                   | 121.174           |                    |         |
| 1,700.00                                     | 1,700.00            | 8,329.00            | 4,956.38            | 5.89            | 54.40       | 95.69                 | -546.99                           | 5,492.67   | 6,435.27             | 6,381.14              | 54.13                   | 118.893           |                    |         |
| 1,800.00                                     | 1,800.00            | 8,329.00            | 4,956.38            | 6.25            | 54.40       | 95.69                 | -546.99                           | 5,492.67   | 6,384.43             | 6,329.71              | 54.72                   | 116.670           |                    |         |
| 1,900.00                                     | 1,900.00            | 8,329.00            | 4,956.38            | 6.61            | 54.40       | 95.69                 | -546.99                           | 5,492.67   | 6,334.77             | 6,279.45              | 55.32                   | 114.507           |                    |         |
| 2,000.00                                     | 2,000.00            | 8,329.00            | 4,956.38            | 6.96            | 54.40       | 95.69                 | -546.99                           | 5,492.67   | 6,286.31             | 6,230.39              | 55.93                   | 112.404           |                    |         |
| 2,100.00                                     | 2,099.99            | 8,329.00            | 4,956.38            | 7.32            | 54.40       | 108.97                | -546.99                           | 5,492.67   | 6,239.33             | 6,182.79              | 56.53                   | 110.368           |                    |         |
| 2,200.00                                     | 2,199.96            | 8,329.00            | 4,956.38            | 7.68            | 54.40       | 109.45                | -546.99                           | 5,492.67   | 6,194.10             | 6,136.96              | 57.14                   | 108.402           |                    |         |
| 2,300.00                                     | 2,299.86            | 8,329.00            | 4,956.38            | 8.04            | 54.40       | 109.90                | -546.99                           | 5,492.67   | 6,150.70             | 6,092.95              | 57.75                   | 106.503           |                    |         |
| 2,400.00                                     | 2,399.68            | 8,298.61            | 4,955.96            | 8.39            | 53.98       | 110.02                | -516.75                           | 5,495.60   | 6,108.92             | 6,050.94              | 57.98                   | 105.363           |                    |         |
| 2,500.00                                     | 2,499.37            | 8,296.69            | 4,955.94            | 8.75            | 53.96       | 110.41                | -514.84                           | 5,495.80   | 6,069.28             | 6,010.71              | 58.57                   | 103.630           |                    |         |
| 2,600.00                                     | 2,598.90            | 8,294.25            | 4,955.90            | 9.11            | 53.92       | 110.76                | -512.41                           | 5,496.05   | 6,031.59             | 5,972.44              | 59.15                   | 101.976           |                    |         |
| 2,700.00                                     | 2,698.26            | 8,291.29            | 4,955.87            | 9.46            | 53.88       | 111.09                | -509.47                           | 5,496.36   | 5,995.91             | 5,936.19              | 59.72                   | 100.401           |                    |         |
| 2,800.00                                     | 2,797.40            | 8,287.82            | 4,955.82            | 9.82            | 53.84       | 111.39                | -506.02                           | 5,496.72   | 5,962.28             | 5,902.00              | 60.28                   | 98.904            |                    |         |
| 2,900.00                                     | 2,896.30            | 8,283.83            | 4,955.77            | 10.18           | 53.78       | 111.66                | -502.05                           | 5,497.15   | 5,930.75             | 5,869.91              | 60.84                   | 97.485            |                    |         |
| 3,000.00                                     | 2,994.93            | 8,279.32            | 4,955.71            | 10.54           | 53.72       | 111.90                | -497.57                           | 5,497.64   | 5,901.35             | 5,839.96              | 61.38                   | 96.143            |                    |         |
| 3,100.00                                     | 3,093.26            | 8,274.31            | 4,955.64            | 10.90           | 53.65       | 112.11                | -492.59                           | 5,498.20   | 5,874.11             | 5,812.20              | 61.91                   | 94.876            |                    |         |
| 3,195.07                                     | 3,186.42            | 8,269.07            | 4,955.57            | 11.24           | 53.58       | 112.29                | -487.38                           | 5,498.79   | 5,850.27             | 5,787.86              | 62.41                   | 93.741            |                    |         |
| 3,200.00                                     | 3,191.25            | 8,268.78            | 4,955.57            | 11.26           | 53.58       | 112.28                | -487.10                           | 5,498.82   | 5,849.09             | 5,786.65              | 62.43                   | 93.684            |                    |         |
| 3,300.00                                     | 3,289.08            | 8,234.00            | 4,955.14            | 11.62           | 53.10       | 111.94                | -452.57                           | 5,503.01   | 5,826.17             | 5,763.60              | 62.57                   | 93.117            |                    |         |
| 3,400.00                                     | 3,386.91            | 8,234.00            | 4,955.14            | 11.98           | 53.10       | 111.94                | -452.57                           | 5,503.01   | 5,804.56             | 5,741.41              | 63.15                   | 91.919            |                    |         |
| 3,500.00                                     | 3,484.74            | 8,234.00            | 4,955.14            | 12.35           | 53.10       | 111.94                | -452.57                           | 5,503.01   | 5,784.59             | 5,720.87              | 63.72                   | 90.779            |                    |         |
| 3,600.00                                     | 3,582.58            | 8,234.00            | 4,955.14            | 12.72           | 53.10       | 111.94                | -452.57                           | 5,503.01   | 5,766.29             | 5,702.00              | 64.29                   | 89.697            |                    |         |
| 3,700.00                                     | 3,680.41            | 8,234.00            | 4,955.14            | 13.09           | 53.10       | 111.94                | -452.57                           | 5,503.01   | 5,749.67             | 5,684.83              | 64.84                   | 88.672            |                    |         |
| 3,800.00                                     | 3,778.24            | 8,234.00            | 4,955.14            | 13.46           | 53.10       | 111.94                | -452.57                           | 5,503.01   | 5,734.75             | 5,669.36              | 65.39                   | 87.703            |                    |         |
| 3,900.00                                     | 3,876.08            | 8,220.87            | 4,954.96            | 13.83           | 52.92       | 111.81                | -439.55                           | 5,504.68   | 5,721.51             | 5,655.76              | 65.75                   | 87.017            |                    |         |
| 4,000.00                                     | 3,973.91            | 8,207.32            | 4,954.74            | 14.21           | 52.74       | 111.67                | -426.12                           | 5,506.43   | 5,709.95             | 5,643.86              | 66.10                   | 86.387            |                    |         |
| 4,100.00                                     | 4,071.74            | 8,194.16            | 4,954.50            | 14.58           | 52.56       | 111.54                | -413.07                           | 5,508.14   | 5,700.09             | 5,633.65              | 66.44                   | 85.797            |                    |         |
| 4,200.00                                     | 4,169.57            | 8,181.36            | 4,954.23            | 14.96           | 52.39       | 111.41                | -400.39                           | 5,509.82   | 5,691.92             | 5,625.15              | 66.77                   | 85.250            |                    |         |
| 4,300.00                                     | 4,267.41            | 8,168.91            | 4,953.95            | 15.33           | 52.22       | 111.29                | -388.05                           | 5,511.47   | 5,685.46             | 5,618.37              | 67.09                   | 84.745            |                    |         |
| 4,400.00                                     | 4,365.24            | 8,156.80            | 4,953.64            | 15.71           | 52.06       | 111.17                | -376.05                           | 5,513.09   | 5,680.72             | 5,613.32              | 67.40                   | 84.282            |                    |         |
| 4,500.00                                     | 4,463.07            | 8,140.00            | 4,953.17            | 16.09           | 51.83       | 111.00                | -359.41                           | 5,515.36   | 5,677.70             | 5,610.07              | 67.64                   | 83.942            |                    |         |
| 4,600.00                                     | 4,560.90            | 8,132.36            | 4,952.94            | 16.47           | 51.73       | 110.93                | -351.85                           | 5,516.39   | 5,676.41             | 5,608.43              | 67.98                   | 83.500            |                    |         |
| 4,625.09                                     | 4,585.45            | 8,128.98            | 4,952.84            | 16.56           | 51.68       | 110.89                | -348.50                           | 5,516.85   | 5,676.35             | 5,608.31              | 68.05                   | 83.420            |                    |         |
| 4,700.00                                     | 4,658.74            | 8,118.85            | 4,952.55            | 16.85           | 51.54       | 110.79                | -338.46                           | 5,518.23   | 5,676.84             | 5,608.61              | 68.23                   | 83.200            |                    |         |
| 4,800.00                                     | 4,756.57            | 8,105.26            | 4,952.16            | 17.23           | 51.36       | 110.66                | -325.01                           | 5,520.09   | 5,678.99             | 5,610.52              | 68.46                   | 82.948            |                    |         |
| 4,900.00                                     | 4,854.40            | 8,091.59            | 4,951.77            | 17.61           | 51.17       | 110.52                | -311.48                           | 5,521.96   | 5,682.86             | 5,614.17              | 68.68                   | 82.741            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Sec 13-T21S-R27E - Lone Tree Draw State Com 2H - ST01 - ST01 |         | Offset Site Error: 5.00 ft |  |
|----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------------------------------------------------|---------|----------------------------|--|
| Survey Program: 80-GYRO-NS-CT, 4361-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: 0.50 ft                                   |         |                            |  |
| Reference                                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                                                              | Warning |                            |  |
| Measured Depth (ft)                          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                                                              |         |                            |  |
|                                              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   |                                                              |         |                            |  |
| 5,000.00                                     | 4,952.23            | 8,077.85            | 4,951.39            | 17.99           | 50.99       | 110.38                | -297.87                           | 5,523.86   | 5,688.44             | 5,619.56              | 68.88                   | 82.582            |                                                              |         |                            |  |
| 5,100.00                                     | 5,050.07            | 8,064.04            | 4,951.02            | 18.37           | 50.80       | 110.25                | -284.19                           | 5,525.77   | 5,695.74             | 5,626.67              | 69.07                   | 82.468            |                                                              |         |                            |  |
| 5,200.00                                     | 5,147.90            | 8,061.55            | 4,950.94            | 18.75           | 50.77       | 110.22                | -281.73                           | 5,526.09   | 5,704.73             | 5,635.35              | 69.38                   | 82.222            |                                                              |         |                            |  |
| 5,300.00                                     | 5,245.73            | 8,016.76            | 4,949.77            | 19.14           | 50.16       | 109.78                | -237.38                           | 5,532.29   | 5,715.41             | 5,646.28              | 69.13                   | 82.677            |                                                              |         |                            |  |
| 5,400.00                                     | 5,343.56            | 7,972.21            | 4,948.56            | 19.52           | 49.56       | 109.33                | -193.25                           | 5,538.25   | 5,727.69             | 5,658.83              | 68.86                   | 83.175            |                                                              |         |                            |  |
| 5,500.00                                     | 5,441.40            | 7,940.49            | 4,947.68            | 19.90           | 49.14       | 109.02                | -161.82                           | 5,542.35   | 5,741.56             | 5,672.81              | 68.75                   | 83.513            |                                                              |         |                            |  |
| 5,600.00                                     | 5,539.23            | 7,921.34            | 4,947.16            | 20.29           | 48.88       | 108.83                | -142.83                           | 5,544.81   | 5,757.07             | 5,688.29              | 68.79                   | 83.693            |                                                              |         |                            |  |
| 5,700.00                                     | 5,637.06            | 7,902.02            | 4,946.65            | 20.67           | 48.62       | 108.64                | -123.67                           | 5,547.29   | 5,774.22             | 5,705.41              | 68.81                   | 83.918            |                                                              |         |                            |  |
| 5,800.00                                     | 5,734.90            | 7,882.53            | 4,946.14            | 21.05           | 48.36       | 108.44                | -104.35                           | 5,549.78   | 5,792.99             | 5,724.17              | 68.81                   | 84.186            |                                                              |         |                            |  |
| 5,900.00                                     | 5,832.73            | 7,900.00            | 4,944.76            | 21.44           | 21.98       | 107.90                | -50.51                            | 5,556.51   | 5,813.29             | 5,770.40              | 42.90                   | 135.523           |                                                              |         |                            |  |
| 6,000.00                                     | 5,930.56            | 7,818.12            | 4,944.53            | 21.83           | 47.49       | 107.80                | -40.47                            | 5,557.87   | 5,835.28             | 5,766.84              | 68.45                   | 85.254            |                                                              |         |                            |  |
| 6,100.00                                     | 6,028.39            | 7,760.99            | 4,943.00            | 22.21           | 46.73       | 107.24                | 16.24                             | 5,564.65   | 5,858.68             | 5,790.76              | 67.92                   | 86.259            |                                                              |         |                            |  |
| 6,200.00                                     | 6,126.23            | 7,737.74            | 4,942.36            | 22.60           | 46.42       | 107.01                | 39.32                             | 5,567.31   | 5,883.56             | 5,815.74              | 67.82                   | 86.750            |                                                              |         |                            |  |
| 6,300.00                                     | 6,224.06            | 7,714.13            | 4,941.75            | 22.98           | 46.10       | 106.77                | 62.77                             | 5,569.99   | 5,909.97             | 5,842.26              | 67.71                   | 87.287            |                                                              |         |                            |  |
| 6,400.00                                     | 6,321.89            | 7,690.14            | 4,941.16            | 23.37           | 45.78       | 106.53                | 86.61                             | 5,572.69   | 5,937.88             | 5,870.30              | 67.58                   | 87.869            |                                                              |         |                            |  |
| 6,500.00                                     | 6,419.72            | 7,664.88            | 4,940.57            | 23.76           | 45.44       | 106.28                | 111.70                            | 5,575.52   | 5,967.26             | 5,899.84              | 67.42                   | 88.512            |                                                              |         |                            |  |
| 6,600.00                                     | 6,517.56            | 7,622.70            | 4,939.65            | 24.14           | 44.88       | 105.87                | 153.61                            | 5,580.13   | 5,998.06             | 5,931.03              | 67.03                   | 89.479            |                                                              |         |                            |  |
| 6,700.00                                     | 6,615.39            | 7,579.65            | 4,938.78            | 24.53           | 44.31       | 105.44                | 196.41                            | 5,584.67   | 6,030.25             | 5,963.62              | 66.63                   | 90.506            |                                                              |         |                            |  |
| 6,800.00                                     | 6,713.22            | 7,572.00            | 4,938.63            | 24.92           | 44.20       | 105.36                | 204.02                            | 5,585.46   | 6,063.83             | 5,997.16              | 66.67                   | 90.959            |                                                              |         |                            |  |
| 6,900.00                                     | 6,811.05            | 7,554.50            | 4,938.33            | 25.30           | 43.97       | 105.19                | 221.43                            | 5,587.29   | 6,098.81             | 6,032.24              | 66.57                   | 91.617            |                                                              |         |                            |  |
| 7,000.00                                     | 6,908.89            | 7,544.57            | 4,938.19            | 25.69           | 43.84       | 105.09                | 231.29                            | 5,588.36   | 6,135.21             | 6,068.65              | 66.56                   | 92.179            |                                                              |         |                            |  |
| 7,100.00                                     | 7,006.72            | 7,534.41            | 4,938.08            | 26.08           | 43.71       | 104.99                | 241.39                            | 5,589.48   | 6,172.98             | 6,106.44              | 66.53                   | 92.778            |                                                              |         |                            |  |
| 7,200.00                                     | 7,104.55            | 7,524.00            | 4,937.98            | 26.47           | 43.57       | 104.89                | 251.74                            | 5,590.64   | 6,212.10             | 6,145.60              | 66.50                   | 93.415            |                                                              |         |                            |  |
| 7,216.87                                     | 7,121.05            | 7,522.22            | 4,937.97            | 26.53           | 43.54       | 104.87                | 253.51                            | 5,590.85   | 6,218.83             | 6,152.34              | 66.49                   | 93.526            |                                                              |         |                            |  |
| 7,300.00                                     | 7,202.57            | 7,513.81            | 4,937.92            | 26.85           | 43.43       | 105.32                | 261.86                            | 5,591.81   | 6,252.33             | 6,185.87              | 66.46                   | 94.080            |                                                              |         |                            |  |
| 7,400.00                                     | 7,301.06            | 7,504.73            | 4,937.88            | 27.23           | 43.31       | 105.88                | 270.88                            | 5,592.87   | 6,293.25             | 6,226.83              | 66.42                   | 94.755            |                                                              |         |                            |  |
| 7,500.00                                     | 7,399.97            | 7,496.83            | 4,937.86            | 27.61           | 43.21       | 106.46                | 278.72                            | 5,593.80   | 6,334.81             | 6,268.43              | 66.38                   | 95.439            |                                                              |         |                            |  |
| 7,600.00                                     | 7,499.23            | 7,477.00            | 4,937.88            | 27.98           | 42.95       | 106.93                | 298.41                            | 5,596.21   | 6,377.01             | 6,310.83              | 66.18                   | 96.362            |                                                              |         |                            |  |
| 7,700.00                                     | 7,598.77            | 7,700.00            | 4,938.62            | 28.34           | 45.88       | 107.23                | 336.32                            | 5,600.87   | 6,419.64             | 6,350.65              | 68.99                   | 93.047            |                                                              |         |                            |  |
| 7,800.00                                     | 7,698.53            | 7,800.00            | 4,938.78            | 28.70           | 47.20       | 107.84                | 344.66                            | 5,601.89   | 6,462.88             | 6,392.64              | 70.24                   | 92.009            |                                                              |         |                            |  |
| 7,900.00                                     | 7,798.44            | 7,900.00            | 4,938.89            | 29.05           | 48.52       | 108.47                | 350.56                            | 5,602.61   | 6,506.65             | 6,435.18              | 71.47                   | 91.044            |                                                              |         |                            |  |
| 8,000.00                                     | 7,898.42            | 7,362.94            | 4,940.36            | 29.39           | 41.45       | 108.57                | 411.59                            | 5,610.06   | 6,550.99             | 6,486.11              | 64.88                   | 100.965           |                                                              |         |                            |  |
| 8,013.58                                     | 7,912.00            | 7,362.40            | 4,940.38            | 29.43           | 41.44       | 95.88                 | 412.12                            | 5,610.13   | 6,557.04             | 6,492.16              | 64.88                   | 101.069           |                                                              |         |                            |  |
| 8,100.00                                     | 7,998.42            | 7,359.18            | 4,940.48            | 29.73           | 41.40       | 95.85                 | 415.32                            | 5,610.51   | 6,595.97             | 6,531.14              | 64.83                   | 101.737           |                                                              |         |                            |  |
| 8,200.00                                     | 8,098.42            | 7,355.51            | 4,940.60            | 30.07           | 41.35       | 95.82                 | 418.96                            | 5,610.95   | 6,642.14             | 6,577.36              | 64.78                   | 102.534           |                                                              |         |                            |  |
| 8,300.00                                     | 8,198.42            | 7,351.90            | 4,940.72            | 30.41           | 41.30       | 95.78                 | 422.55                            | 5,611.38   | 6,689.49             | 6,624.77              | 64.72                   | 103.354           |                                                              |         |                            |  |
| 8,363.62                                     | 8,262.04            | 7,349.63            | 4,940.80            | 30.62           | 41.27       | 95.76                 | 424.80                            | 5,611.64   | 6,720.21             | 6,655.52              | 64.69                   | 103.888           |                                                              |         |                            |  |
| 8,400.00                                     | 8,298.40            | 7,348.19            | 4,940.84            | 30.75           | 41.25       | 95.89                 | 426.23                            | 5,611.81   | 6,736.97             | 6,672.31              | 64.66                   | 104.195           |                                                              |         |                            |  |
| 8,450.00                                     | 8,348.10            | 7,345.73            | 4,940.92            | 30.91           | 41.22       | 95.65                 | 428.67                            | 5,612.11   | 6,756.88             | 6,692.28              | 64.60                   | 104.596           |                                                              |         |                            |  |
| 8,500.00                                     | 8,397.14            | 7,342.73            | 4,941.02            | 31.07           | 41.18       | 95.46                 | 431.64                            | 5,612.46   | 6,773.07             | 6,708.54              | 64.53                   | 104.963           |                                                              |         |                            |  |
| 8,550.00                                     | 8,445.15            | 7,339.24            | 4,941.13            | 31.23           | 41.14       | 95.31                 | 435.11                            | 5,612.87   | 6,785.43             | 6,720.99              | 64.44                   | 105.295           |                                                              |         |                            |  |
| 8,600.00                                     | 8,491.77            | 7,335.28            | 4,941.26            | 31.38           | 41.08       | 95.19                 | 439.04                            | 5,613.34   | 6,793.89             | 6,729.55              | 64.34                   | 105.590           |                                                              |         |                            |  |
| 8,650.00                                     | 8,536.65            | 7,330.89            | 4,941.39            | 31.52           | 41.03       | 95.12                 | 443.40                            | 5,613.85   | 6,798.41             | 6,734.18              | 64.23                   | 105.847           |                                                              |         |                            |  |
| 8,700.00                                     | 8,579.43            | 7,326.11            | 4,941.54            | 31.66           | 40.96       | 95.07                 | 448.14                            | 5,614.41   | 6,798.96             | 6,734.85              | 64.10                   | 106.067           |                                                              |         |                            |  |
| 8,750.00                                     | 8,619.80            | 7,320.99            | 4,941.70            | 31.80           | 40.90       | 95.06                 | 453.23                            | 5,615.01   | 6,795.52             | 6,731.56              | 63.96                   | 106.247           |                                                              |         |                            |  |
| 8,800.00                                     | 8,657.44            | 7,315.56            | 4,941.86            | 31.93           | 40.83       | 95.08                 | 458.61                            | 5,615.64   | 6,788.13             | 6,724.32              | 63.81                   | 106.386           |                                                              |         |                            |  |
| 8,850.00                                     | 8,692.08            | 7,309.88            | 4,942.03            | 32.06           | 40.75       | 95.13                 | 464.25                            | 5,616.30   | 6,776.81             | 6,713.17              | 63.64                   | 106.482           |                                                              |         |                            |  |
| 8,900.00                                     | 8,723.44            | 7,303.99            | 4,942.21            | 32.19           | 40.67       | 95.22                 | 470.10                            | 5,616.99   | 6,761.65             | 6,698.18              | 63.47                   | 106.534           |                                                              |         |                            |  |
| 8,950.00                                     | 8,751.29            | 7,299.27            | 4,942.35            | 32.34           | 40.61       | 95.37                 | 474.79                            | 5,617.53   | 6,742.73             | 6,679.43              | 63.30                   | 106.517           |                                                              |         |                            |  |
| 9,000.00                                     | 8,775.42            | 7,292.34            | 4,942.54            | 32.50           | 40.52       | 95.55                 | 481.67                            | 5,618.33   | 6,720.16             | 6,657.05              | 63.11                   | 106.489           |                                                              |         |                            |  |
| 9,050.00                                     | 8,795.64            | 7,285.30            | 4,942.74            | 32.67           | 40.43       | 95.78                 | 488.66                            | 5,619.14   | 6,694.08             | 6,631.17              | 62.91                   | 106.414           |                                                              |         |                            |  |
| 9,100.00                                     | 8,811.80            | 7,278.20            | 4,942.94            | 32.87           | 40.34       | 96.08                 | 495.71                            | 5,619.96   | 6,664.64             | 6,601.94              | 62.70                   | 106.289           |                                                              |         |                            |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design      Sec 13-T21S-R27E - Lone Tree Draw State Com 2H - ST01 - ST01 |                           |                                 |                           |                   |                |                             |                                         |               |                            |                             |                               |                      | Offset Site Error:      5.00 ft |         |
|---------------------------------------------------------------------------------|---------------------------|---------------------------------|---------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|---------------------------------|---------|
| Survey Program:      80-GYRO-NS-CT, 4361-MWD+HDGM                               |                           |                                 |                           |                   |                |                             |                                         |               |                            |                             |                               |                      | Offset Well Error:      0.50 ft |         |
| Reference                                                                       |                           | Offset                          |                           | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                      |                                 | Warning |
| Measured Depth<br>Depth<br>(ft)                                                 | Vertical<br>Depth<br>(ft) | Measured Depth<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor |                                 |         |
| 9,150.00                                                                        | 8,823.77                  | 7,271.10                        | 4,943.13                  | 33.10             | 40.24          | 6.47                        | 502.76                                  | 5,620.77      | 6,632.03                   | 6,569.53                    | 62.50                         | 106.113              |                                 |         |
| 9,200.00                                                                        | 8,831.47                  | 7,264.05                        | 4,943.33                  | 33.34             | 40.15          | 6.98                        | 509.76                                  | 5,621.57      | 6,596.44                   | 6,534.14                    | 62.30                         | 105.885              |                                 |         |
| 9,250.00                                                                        | 8,834.84                  | 7,257.10                        | 4,943.52                  | 33.60             | 40.06          | 7.65                        | 516.67                                  | 5,622.37      | 6,558.11                   | 6,496.01                    | 62.10                         | 105.604              |                                 |         |
| 9,263.62                                                                        | 8,835.00                  | 7,255.23                        | 4,943.57                  | 33.67             | 40.04          | 7.86                        | 518.52                                  | 5,622.58      | 6,547.22                   | 6,485.17                    | 62.05                         | 105.513              |                                 |         |
| 9,300.00                                                                        | 8,835.00                  | 7,250.26                        | 4,943.70                  | 33.88             | 39.97          | 7.79                        | 523.46                                  | 5,623.14      | 6,517.94                   | 6,456.03                    | 61.91                         | 105.288              |                                 |         |
| 9,400.00                                                                        | 8,835.00                  | 7,236.68                        | 4,944.07                  | 34.53             | 39.80          | 7.60                        | 536.95                                  | 5,624.68      | 6,437.79                   | 6,376.29                    | 61.51                         | 104.666              |                                 |         |
| 9,500.00                                                                        | 8,835.00                  | 7,223.21                        | 4,944.43                  | 35.30             | 39.62          | 7.40                        | 550.33                                  | 5,626.20      | 6,358.19                   | 6,297.07                    | 61.11                         | 104.037              |                                 |         |
| 9,600.00                                                                        | 8,835.00                  | 7,209.85                        | 4,944.79                  | 36.17             | 39.45          | 7.21                        | 563.59                                  | 5,627.70      | 6,279.14                   | 6,218.41                    | 60.73                         | 103.399              |                                 |         |
| 9,700.00                                                                        | 8,835.00                  | 7,197.15                        | 4,945.12                  | 37.13             | 39.28          | 7.02                        | 576.21                                  | 5,629.12      | 6,200.67                   | 6,140.32                    | 60.35                         | 102.743              |                                 |         |
| 9,800.00                                                                        | 8,835.00                  | 7,182.27                        | 4,945.50                  | 38.18             | 39.09          | 6.80                        | 590.99                                  | 5,630.77      | 6,122.81                   | 6,062.85                    | 59.96                         | 102.117              |                                 |         |
| 9,900.00                                                                        | 8,835.00                  | 7,168.18                        | 4,945.81                  | 39.31             | 38.90          | 6.60                        | 604.99                                  | 5,632.28      | 6,045.56                   | 5,985.98                    | 59.58                         | 101.468              |                                 |         |
| 10,000.00                                                                       | 8,835.00                  | 7,154.83                        | 4,946.07                  | 40.51             | 38.73          | 6.40                        | 618.27                                  | 5,633.68      | 5,968.97                   | 5,909.75                    | 59.22                         | 100.798              |                                 |         |
| 10,100.00                                                                       | 8,835.00                  | 7,142.16                        | 4,946.28                  | 41.78             | 38.57          | 6.22                        | 630.88                                  | 5,634.97      | 5,893.05                   | 5,834.19                    | 58.87                         | 100.106              |                                 |         |
| 10,200.00                                                                       | 8,835.00                  | 7,130.12                        | 4,946.44                  | 43.10             | 38.41          | 6.04                        | 642.86                                  | 5,636.16      | 5,817.84                   | 5,759.31                    | 58.53                         | 99.393               |                                 |         |
| 10,300.00                                                                       | 8,835.00                  | 7,118.65                        | 4,946.57                  | 44.49             | 38.26          | 5.87                        | 654.27                                  | 5,637.26      | 5,743.37                   | 5,685.15                    | 58.21                         | 98.659               |                                 |         |
| 10,400.00                                                                       | 8,835.00                  | 7,107.96                        | 4,946.67                  | 45.92             | 38.12          | 5.72                        | 664.91                                  | 5,638.28      | 5,669.66                   | 5,611.75                    | 57.91                         | 97.900               |                                 |         |
| 10,500.00                                                                       | 8,835.00                  | 7,097.30                        | 4,946.73                  | 47.39             | 37.98          | 5.56                        | 675.53                                  | 5,639.25      | 5,596.75                   | 5,539.12                    | 57.62                         | 97.127               |                                 |         |
| 10,600.00                                                                       | 8,835.00                  | 7,086.80                        | 4,946.78                  | 48.91             | 37.85          | 5.41                        | 685.99                                  | 5,640.19      | 5,524.66                   | 5,467.32                    | 57.35                         | 96.337               |                                 |         |
| 10,700.00                                                                       | 8,835.00                  | 7,076.47                        | 4,946.83                  | 50.47             | 37.72          | 5.25                        | 696.28                                  | 5,641.12      | 5,453.45                   | 5,396.36                    | 57.09                         | 95.531               |                                 |         |
| 10,800.00                                                                       | 8,835.00                  | 7,066.29                        | 4,946.86                  | 52.06             | 37.58          | 5.10                        | 706.41                                  | 5,642.02      | 5,383.12                   | 5,326.28                    | 56.84                         | 94.707               |                                 |         |
| 10,900.00                                                                       | 8,835.00                  | 7,056.28                        | 4,946.90                  | 53.68             | 37.45          | 4.96                        | 716.38                                  | 5,642.90      | 5,313.73                   | 5,257.12                    | 56.61                         | 93.865               |                                 |         |
| 11,000.00                                                                       | 8,835.00                  | 7,046.42                        | 4,946.92                  | 55.32             | 37.33          | 4.81                        | 726.20                                  | 5,643.76      | 5,245.32                   | 5,188.92                    | 56.40                         | 93.004               |                                 |         |
| 11,100.00                                                                       | 8,835.00                  | 7,036.72                        | 4,946.94                  | 57.00             | 37.20          | 4.67                        | 735.88                                  | 5,644.60      | 5,177.91                   | 5,121.70                    | 56.21                         | 92.124               |                                 |         |
| 11,200.00                                                                       | 8,835.00                  | 7,027.16                        | 4,946.96                  | 58.70             | 37.08          | 4.53                        | 745.40                                  | 5,645.42      | 5,111.55                   | 5,055.52                    | 56.03                         | 91.225               |                                 |         |
| 11,300.00                                                                       | 8,835.00                  | 7,017.74                        | 4,946.97                  | 60.41             | 36.96          | 4.39                        | 754.78                                  | 5,646.22      | 5,046.28                   | 4,990.40                    | 55.88                         | 90.306               |                                 |         |
| 11,400.00                                                                       | 8,835.00                  | 7,008.46                        | 4,946.97                  | 62.15             | 36.84          | 4.25                        | 764.02                                  | 5,647.00      | 4,982.15                   | 4,926.40                    | 55.75                         | 89.368               |                                 |         |
| 11,500.00                                                                       | 8,835.00                  | 6,999.63                        | 4,946.97                  | 63.91             | 36.72          | 4.12                        | 772.83                                  | 5,647.74      | 4,919.20                   | 4,863.56                    | 55.64                         | 88.405               |                                 |         |
| 11,600.00                                                                       | 8,835.00                  | 6,991.17                        | 4,946.98                  | 65.69             | 36.62          | 3.99                        | 781.26                                  | 5,648.46      | 4,857.48                   | 4,801.91                    | 55.56                         | 87.420               |                                 |         |
| 11,700.00                                                                       | 8,835.00                  | 6,982.56                        | 4,946.99                  | 67.47             | 36.51          | 3.87                        | 789.84                                  | 5,649.19      | 4,797.03                   | 4,741.52                    | 55.51                         | 86.421               |                                 |         |
| 11,800.00                                                                       | 8,835.00                  | 6,973.80                        | 4,947.00                  | 69.28             | 36.39          | 3.74                        | 798.57                                  | 5,649.95      | 4,737.90                   | 4,682.43                    | 55.47                         | 85.408               |                                 |         |
| 11,900.00                                                                       | 8,835.00                  | 6,964.88                        | 4,947.01                  | 71.09             | 36.28          | 3.60                        | 807.45                                  | 5,650.72      | 4,680.15                   | 4,624.69                    | 55.46                         | 84.384               |                                 |         |
| 12,000.00                                                                       | 8,835.00                  | 6,955.80                        | 4,947.04                  | 72.92             | 36.16          | 3.47                        | 816.49                                  | 5,651.51      | 4,623.82                   | 4,568.34                    | 55.48                         | 83.348               |                                 |         |
| 12,100.00                                                                       | 8,835.00                  | 6,946.56                        | 4,947.06                  | 74.76             | 36.04          | 3.33                        | 825.70                                  | 5,652.33      | 4,568.97                   | 4,513.45                    | 55.51                         | 82.302               |                                 |         |
| 12,200.00                                                                       | 8,835.00                  | 6,937.14                        | 4,947.09                  | 76.61             | 35.92          | 3.19                        | 835.08                                  | 5,653.17      | 4,515.64                   | 4,460.06                    | 55.58                         | 81.247               |                                 |         |
| 12,300.00                                                                       | 8,835.00                  | 6,927.56                        | 4,947.13                  | 78.47             | 35.80          | 3.05                        | 844.62                                  | 5,654.04      | 4,463.90                   | 4,408.23                    | 55.67                         | 80.186               |                                 |         |
| 12,400.00                                                                       | 8,835.00                  | 6,917.79                        | 4,947.18                  | 80.34             | 35.68          | 2.91                        | 854.35                                  | 5,654.93      | 4,413.79                   | 4,358.01                    | 55.79                         | 79.120               |                                 |         |
| 12,500.00                                                                       | 8,835.00                  | 6,909.00                        | 4,947.22                  | 82.22             | 35.56          | 2.78                        | 863.10                                  | 5,655.74      | 4,365.38                   | 4,309.44                    | 55.94                         | 78.036               |                                 |         |
| 12,600.00                                                                       | 8,835.00                  | 6,900.18                        | 4,947.26                  | 84.11             | 35.45          | 2.64                        | 871.89                                  | 5,656.55      | 4,318.73                   | 4,262.60                    | 56.12                         | 76.950               |                                 |         |
| 12,700.00                                                                       | 8,835.00                  | 6,892.34                        | 4,947.29                  | 86.00             | 35.35          | 2.53                        | 879.69                                  | 5,657.27      | 4,273.88                   | 4,217.54                    | 56.34                         | 75.852               |                                 |         |
| 12,800.00                                                                       | 8,835.00                  | 6,884.58                        | 4,947.32                  | 87.90             | 35.25          | 2.41                        | 887.42                                  | 5,657.98      | 4,230.91                   | 4,174.31                    | 56.60                         | 74.757               |                                 |         |
| 12,900.00                                                                       | 8,835.00                  | 6,876.88                        | 4,947.34                  | 89.81             | 35.15          | 2.30                        | 895.09                                  | 5,658.67      | 4,189.86                   | 4,132.99                    | 56.88                         | 73.667               |                                 |         |
| 13,000.00                                                                       | 8,835.00                  | 6,869.25                        | 4,947.36                  | 91.72             | 35.06          | 2.19                        | 902.69                                  | 5,659.36      | 4,150.81                   | 4,093.62                    | 57.19                         | 72.584               |                                 |         |
| 13,100.00                                                                       | 8,835.00                  | 6,861.68                        | 4,947.36                  | 93.64             | 34.96          | 2.07                        | 910.23                                  | 5,660.05      | 4,113.79                   | 4,056.26                    | 57.53                         | 71.511               |                                 |         |
| 13,200.00                                                                       | 8,835.00                  | 6,854.18                        | 4,947.37                  | 95.56             | 34.87          | 1.96                        | 917.70                                  | 5,660.72      | 4,078.87                   | 4,020.97                    | 57.90                         | 70.451               |                                 |         |
| 13,300.00                                                                       | 8,835.00                  | 6,846.74                        | 4,947.37                  | 97.49             | 34.77          | 1.85                        | 925.10                                  | 5,661.38      | 4,046.11                   | 3,987.81                    | 58.30                         | 69.405               |                                 |         |
| 13,400.00                                                                       | 8,835.00                  | 6,839.37                        | 4,947.36                  | 99.42             | 34.68          | 1.74                        | 932.45                                  | 5,662.03      | 4,015.55                   | 3,956.82                    | 58.73                         | 68.376               |                                 |         |
| 13,500.00                                                                       | 8,835.00                  | 6,832.06                        | 4,947.35                  | 101.36            | 34.59          | 1.63                        | 939.73                                  | 5,662.68      | 3,987.25                   | 3,928.06                    | 59.19                         | 67.366               |                                 |         |
| 13,600.00                                                                       | 8,835.00                  | 6,824.81                        | 4,947.34                  | 103.30            | 34.49          | 1.53                        | 946.95                                  | 5,663.32      | 3,961.25                   | 3,901.57                    | 59.68                         | 66.378               |                                 |         |
| 13,700.00                                                                       | 8,835.00                  | 6,821.00                        | 4,947.33                  | 105.25            | 34.44          | 1.47                        | 950.75                                  | 5,663.65      | 3,937.61                   | 3,877.38                    | 60.22                         | 65.386               |                                 |         |
| 13,800.00                                                                       | 8,835.00                  | 6,807.32                        | 4,947.28                  | 107.20            | 34.27          | 1.27                        | 964.37                                  | 5,664.84      | 3,916.36                   | 3,855.63                    | 60.73                         | 64.492               |                                 |         |
| 13,900.00                                                                       | 8,835.00                  | 6,794.14                        | 4,947.24                  | 109.15            | 34.11          | 1.07                        | 977.51                                  | 5,665.97      | 3,897.52                   | 3,836.26                    | 61.27                         | 63.616               |                                 |         |
| 14,000.00                                                                       | 8,835.00                  | 6,781.43                        | 4,947.22                  | 111.10            | 33.95          | 0.88                        | 990.17                                  | 5,667.03      | 3,881.15                   | 3,819.31                    | 61.84                         | 62.760               |                                 |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 80-GYRO-NS-CT, 4361-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 14,100.00                                    | 8,835.00            | 6,769.18            | 4,947.20            | 113.06          | 33.79       | 0.70                  | 1,002.38                          | 5,668.04   | 3,867.26             | 3,804.81              | 62.45                   | 61.927            |                    |         |
| 14,200.00                                    | 8,835.00            | 6,757.35            | 4,947.19            | 115.03          | 33.64       | 0.52                  | 1,014.17                          | 5,669.00   | 3,855.89             | 3,792.81              | 63.09                   | 61.120            |                    |         |
| 14,300.00                                    | 8,835.00            | 6,745.92            | 4,947.19            | 116.99          | 33.50       | 0.35                  | 1,025.57                          | 5,669.90   | 3,847.06             | 3,783.31              | 63.76                   | 60.340            |                    |         |
| 14,400.00                                    | 8,835.00            | 6,734.87            | 4,947.20            | 118.96          | 33.36       | 0.19                  | 1,036.58                          | 5,670.76   | 3,840.80             | 3,776.34              | 64.45                   | 59.589            |                    |         |
| 14,500.00                                    | 8,835.00            | 6,724.19            | 4,947.21            | 120.93          | 33.23       | 0.03                  | 1,047.23                          | 5,671.57   | 3,837.10             | 3,771.92              | 65.18                   | 58.871            |                    |         |
| 14,592.75                                    | 8,835.00            | 6,719.00            | 4,947.22            | 122.76          | 33.16       | -0.05                 | 1,052.41                          | 5,671.97   | 3,835.98             | 3,770.09              | 65.89                   | 58.215 CC         |                    |         |
| 14,600.00                                    | 8,835.00            | 6,719.00            | 4,947.22            | 122.90          | 33.16       | -0.05                 | 1,052.41                          | 5,671.97   | 3,835.99             | 3,770.04              | 65.95                   | 58.164 ES         |                    |         |
| 14,700.00                                    | 8,835.00            | 6,719.00            | 4,947.22            | 124.88          | 33.16       | -0.05                 | 1,052.41                          | 5,671.97   | 3,837.48             | 3,770.71              | 66.77                   | 57.475            |                    |         |
| 14,800.00                                    | 8,835.00            | 6,706.31            | 4,947.23            | 126.86          | 33.00       | -0.24                 | 1,065.07                          | 5,672.88   | 3,841.54             | 3,774.00              | 67.54                   | 56.878            |                    |         |
| 14,900.00                                    | 8,835.00            | 6,701.73            | 4,947.23            | 128.84          | 32.95       | -0.31                 | 1,069.63                          | 5,673.19   | 3,848.20             | 3,779.84              | 68.36                   | 56.291            |                    |         |
| 15,000.00                                    | 8,835.00            | 6,697.41            | 4,947.23            | 130.82          | 32.89       | -0.37                 | 1,073.94                          | 5,673.48   | 3,857.44             | 3,788.24              | 69.20                   | 55.746            |                    |         |
| 15,100.00                                    | 8,835.00            | 6,693.32            | 4,947.22            | 132.80          | 32.84       | -0.43                 | 1,078.02                          | 5,673.74   | 3,869.23             | 3,799.19              | 70.04                   | 55.245            |                    |         |
| 15,200.00                                    | 8,835.00            | 6,689.44            | 4,947.21            | 134.79          | 32.79       | -0.49                 | 1,081.90                          | 5,673.98   | 3,883.55             | 3,812.67              | 70.88                   | 54.789            |                    |         |
| 15,300.00                                    | 8,835.00            | 6,685.76            | 4,947.21            | 136.78          | 32.75       | -0.54                 | 1,085.57                          | 5,674.20   | 3,900.38             | 3,828.65              | 71.73                   | 54.379            |                    |         |
| 15,400.00                                    | 8,835.00            | 6,682.26            | 4,947.20            | 138.76          | 32.70       | -0.60                 | 1,089.06                          | 5,674.41   | 3,919.68             | 3,847.11              | 72.57                   | 54.015            |                    |         |
| 15,500.00                                    | 8,835.00            | 6,678.93            | 4,947.19            | 140.76          | 32.66       | -0.65                 | 1,092.39                          | 5,674.60   | 3,941.42             | 3,868.02              | 73.40                   | 53.697            |                    |         |
| 15,600.00                                    | 8,835.00            | 6,675.76            | 4,947.17            | 142.75          | 32.62       | -0.69                 | 1,095.56                          | 5,674.77   | 3,965.55             | 3,891.33              | 74.22                   | 53.426            |                    |         |
| 15,700.00                                    | 8,835.00            | 6,672.73            | 4,947.16            | 144.74          | 32.58       | -0.74                 | 1,098.58                          | 5,674.94   | 3,992.05             | 3,917.01              | 75.04                   | 53.202            |                    |         |
| 15,800.00                                    | 8,835.00            | 6,669.84            | 4,947.15            | 146.74          | 32.55       | -0.78                 | 1,101.47                          | 5,675.09   | 4,020.85             | 3,945.02              | 75.83                   | 53.024            |                    |         |
| 15,900.00                                    | 8,835.00            | 6,667.07            | 4,947.14            | 148.73          | 32.51       | -0.82                 | 1,104.23                          | 5,675.23   | 4,051.91             | 3,975.30              | 76.61                   | 52.892            |                    |         |
| 16,000.00                                    | 8,835.00            | 6,664.43            | 4,947.12            | 150.73          | 32.48       | -0.86                 | 1,106.87                          | 5,675.37   | 4,085.18             | 4,007.82              | 77.36                   | 52.805            |                    |         |
| 16,100.00                                    | 8,835.00            | 6,661.90            | 4,947.11            | 152.73          | 32.45       | -0.90                 | 1,109.40                          | 5,675.49   | 4,120.61             | 4,042.51              | 78.10                   | 52.762 SF         |                    |         |
| 16,200.00                                    | 8,835.00            | 6,659.47            | 4,947.09            | 154.73          | 32.42       | -0.94                 | 1,111.82                          | 5,675.61   | 4,158.13             | 4,079.32              | 78.81                   | 52.762            |                    |         |
| 16,300.00                                    | 8,835.00            | 6,657.14            | 4,947.08            | 156.73          | 32.39       | -0.97                 | 1,114.15                          | 5,675.72   | 4,197.70             | 4,118.20              | 79.50                   | 52.804            |                    |         |
| 16,400.00                                    | 8,835.00            | 6,654.90            | 4,947.06            | 158.74          | 32.36       | -1.00                 | 1,116.39                          | 5,675.82   | 4,239.26             | 4,159.10              | 80.16                   | 52.887            |                    |         |
| 16,500.00                                    | 8,835.00            | 6,652.75            | 4,947.05            | 160.74          | 32.33       | -1.04                 | 1,118.54                          | 5,675.92   | 4,282.74             | 4,201.95              | 80.79                   | 53.010            |                    |         |
| 16,600.00                                    | 8,835.00            | 6,650.68            | 4,947.04            | 162.74          | 32.31       | -1.07                 | 1,120.60                          | 5,676.01   | 4,328.10             | 4,246.70              | 81.40                   | 53.171            |                    |         |
| 16,700.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 164.75          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,375.43             | 4,293.56              | 81.88                   | 53.439            |                    |         |
| 16,800.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 166.76          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,424.34             | 4,341.90              | 82.44                   | 53.668            |                    |         |
| 16,900.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 168.77          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,474.94             | 4,391.97              | 82.97                   | 53.932            |                    |         |
| 17,000.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 170.77          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,527.19             | 4,443.70              | 83.48                   | 54.229            |                    |         |
| 17,100.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 172.78          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,581.02             | 4,497.05              | 83.97                   | 54.557            |                    |         |
| 17,200.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 174.79          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,636.39             | 4,551.96              | 84.43                   | 54.916            |                    |         |
| 17,300.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 176.81          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,693.23             | 4,608.37              | 84.86                   | 55.305            |                    |         |
| 17,400.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 178.82          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,751.50             | 4,666.23              | 85.27                   | 55.721            |                    |         |
| 17,500.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 180.83          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,811.14             | 4,725.48              | 85.66                   | 56.164            |                    |         |
| 17,600.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 182.84          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,872.11             | 4,786.08              | 86.03                   | 56.632            |                    |         |
| 17,700.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 184.86          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,934.35             | 4,847.97              | 86.38                   | 57.126            |                    |         |
| 17,800.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 186.87          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,997.81             | 4,911.11              | 86.70                   | 57.642            |                    |         |
| 17,900.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 188.89          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 5,062.46             | 4,975.44              | 87.01                   | 58.181            |                    |         |
| 18,000.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 190.91          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 5,128.24             | 5,040.93              | 87.30                   | 58.741            |                    |         |
| 18,100.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 192.92          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 5,195.11             | 5,107.53              | 87.58                   | 59.321            |                    |         |
| 18,200.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 194.94          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 5,263.03             | 5,175.20              | 87.83                   | 59.921            |                    |         |
| 18,300.00                                    | 8,835.00            | 6,624.05            | 4,946.80            | 196.96          | 31.98       | -1.46                 | 1,147.22                          | 5,677.00   | 5,331.96             | 5,243.89              | 88.07                   | 60.544            |                    |         |
| 18,400.00                                    | 8,835.00            | 6,620.97            | 4,946.77            | 198.98          | 31.94       | -1.51                 | 1,150.29                          | 5,677.09   | 5,401.86             | 5,313.59              | 88.28                   | 61.192            |                    |         |
| 18,500.00                                    | 8,835.00            | 6,617.92            | 4,946.74            | 201.00          | 31.90       | -1.55                 | 1,153.34                          | 5,677.19   | 5,472.70             | 5,384.23              | 88.47                   | 61.858            |                    |         |
| 18,600.00                                    | 8,835.00            | 6,614.89            | 4,946.70            | 203.02          | 31.86       | -1.60                 | 1,156.36                          | 5,677.28   | 5,544.43             | 5,455.78              | 88.65                   | 62.540            |                    |         |
| 18,700.00                                    | 8,835.00            | 6,611.90            | 4,946.67            | 205.04          | 31.83       | -1.64                 | 1,159.36                          | 5,677.37   | 5,617.02             | 5,528.20              | 88.82                   | 63.239            |                    |         |
| 18,800.00                                    | 8,835.00            | 6,608.93            | 4,946.64            | 207.06          | 31.79       | -1.69                 | 1,162.33                          | 5,677.46   | 5,690.45             | 5,601.47              | 88.98                   | 63.952            |                    |         |
| 18,900.00                                    | 8,835.00            | 6,247.00            | 4,947.05            | 209.08          | 27.44       | -7.04                 | 1,523.35                          | 5,699.85   | 5,764.52             | 5,676.29              | 88.23                   | 65.334            |                    |         |
| 19,000.00                                    | 8,835.00            | 6,247.00            | 4,947.05            | 211.10          | 27.44       | -7.04                 | 1,523.35                          | 5,699.85   | 5,839.09             | 5,750.74              | 88.35                   | 66.089            |                    |         |
| 19,100.00                                    | 8,835.00            | 6,247.00            | 4,947.05            | 213.12          | 27.44       | -7.04                 | 1,523.35                          | 5,699.85   | 5,914.42             | 5,825.95              | 88.46                   | 66.857            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw State Com 2H - ST01 - ST01 |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Site Error:</b> | 5.00 ft |
|-----------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|-----------------------------------------|---------------|-------------------------|--------------------------|----------------------------|---------------------------|---------|
| Survey Program: 80-GYRO-NS-CT, 4361-MWD+HDGM                                      |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                         |                        | Offset                 |                        | Semi Major Axis   |                |                          | Distance                                |               |                         |                          |                            |                           | Warning |
| Measured Depth<br>(ft)                                                            | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between Centres<br>(ft) | Between Ellipses<br>(ft) | Minimum Separation<br>(ft) | Separation Factor         |         |
| 19,200.00                                                                         | 8,835.00               | 6,247.00               | 4,947.05               | 215.15            | 27.44          | -7.04                    | 1,523.35                                | 5,699.85      | 5,990.46                | 5,901.89                 | 88.57                      | 67.638                    |         |
| 19,308.27                                                                         | 8,835.00               | 6,247.00               | 4,947.05               | 217.34            | 27.44          | -7.04                    | 1,523.35                                | 5,699.85      | 6,073.58                | 5,984.91                 | 88.67                      | 68.497                    |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 80-GYRO-NS-CT |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                          | 0.00                | 0.00                | 0.00                | 0.50            | 5.02        | 61.82                 | 3,098.47                          | 5,783.09   | 6,561.05             |                       |                         |                   |                    |         |
| 100.00                        | 100.00              | 44.15               | 44.15               | 0.52            | 5.03        | 61.82                 | 3,098.46                          | 5,783.11   | 6,560.86             | 6,555.31              | 5.54                    | 1,183.637         |                    |         |
| 200.00                        | 200.00              | 139.73              | 139.73              | 0.70            | 5.03        | 61.82                 | 3,098.39                          | 5,783.26   | 6,560.96             | 6,555.23              | 5.74                    | 1,143.782         |                    |         |
| 300.00                        | 300.00              | 235.12              | 235.12              | 0.99            | 5.07        | 61.82                 | 3,098.28                          | 5,783.49   | 6,561.12             | 6,555.07              | 6.05                    | 1,084.034         |                    |         |
| 400.00                        | 400.00              | 332.24              | 332.24              | 1.31            | 5.12        | 61.82                 | 3,098.14                          | 5,783.82   | 6,561.35             | 6,554.92              | 6.43                    | 1,020.730         |                    |         |
| 500.00                        | 500.00              | 425.78              | 425.77              | 1.65            | 5.19        | 61.83                 | 3,097.94                          | 5,784.22   | 6,561.63             | 6,554.79              | 6.84                    | 959.655           |                    |         |
| 600.00                        | 600.00              | 519.62              | 519.61              | 1.99            | 5.28        | 61.83                 | 3,097.68                          | 5,784.79   | 6,562.03             | 6,554.75              | 7.27                    | 902.111           |                    |         |
| 700.00                        | 700.00              | 610.56              | 610.55              | 2.34            | 5.39        | 61.84                 | 3,097.30                          | 5,785.50   | 6,562.52             | 6,554.79              | 7.73                    | 849.000           |                    |         |
| 800.00                        | 800.00              | 709.60              | 709.59              | 2.69            | 5.53        | 61.85                 | 3,096.77                          | 5,786.47   | 6,563.13             | 6,554.92              | 8.22                    | 798.807           |                    |         |
| 900.00                        | 900.00              | 805.23              | 805.20              | 3.04            | 5.68        | 61.86                 | 3,095.91                          | 5,787.58   | 6,563.73             | 6,555.01              | 8.72                    | 752.979           |                    |         |
| 1,000.00                      | 1,000.00            | 893.68              | 893.64              | 3.40            | 5.83        | 61.87                 | 3,094.99                          | 5,788.81   | 6,564.47             | 6,555.24              | 9.22                    | 711.818           |                    |         |
| 1,100.00                      | 1,100.00            | 984.35              | 984.29              | 3.75            | 5.99        | 61.88                 | 3,093.88                          | 5,790.34   | 6,565.38             | 6,555.64              | 9.75                    | 673.708           |                    |         |
| 1,200.00                      | 1,200.00            | 1,087.89            | 1,087.80            | 4.11            | 6.20        | 61.90                 | 3,092.43                          | 5,792.27   | 6,566.36             | 6,556.05              | 10.31                   | 637.046           |                    |         |
| 1,300.00                      | 1,300.00            | 1,199.53            | 1,199.40            | 4.46            | 6.44        | 61.93                 | 3,090.37                          | 5,794.42   | 6,567.19             | 6,556.29              | 10.90                   | 602.295           |                    |         |
| 1,400.00                      | 1,400.00            | 1,308.67            | 1,308.48            | 4.82            | 6.69        | 61.96                 | 3,087.61                          | 5,796.72   | 6,567.86             | 6,556.35              | 11.51                   | 570.577           |                    |         |
| 1,500.00                      | 1,500.00            | 1,414.21            | 1,413.95            | 5.18            | 6.95        | 61.99                 | 3,084.42                          | 5,799.09   | 6,568.43             | 6,556.30              | 12.12                   | 541.768           |                    |         |
| 1,600.00                      | 1,600.00            | 1,519.98            | 1,519.65            | 5.53            | 7.21        | 62.02                 | 3,081.38                          | 5,801.27   | 6,568.90             | 6,556.15              | 12.75                   | 515.292           |                    |         |
| 1,700.00                      | 1,700.00            | 1,611.49            | 1,611.12            | 5.89            | 7.45        | 62.05                 | 3,079.21                          | 5,802.88   | 6,569.35             | 6,556.01              | 13.34                   | 492.371           |                    |         |
| 1,800.00                      | 1,800.00            | 1,686.42            | 1,686.03            | 6.25            | 7.65        | 62.06                 | 3,077.80                          | 5,804.33   | 6,570.15             | 6,556.26              | 13.90                   | 472.757           |                    |         |
| 1,900.00                      | 1,900.00            | 1,773.84            | 1,773.42            | 6.61            | 7.89        | 62.08                 | 3,076.50                          | 5,806.11   | 6,571.26             | 6,556.77              | 14.49                   | 453.497           |                    |         |
| 2,000.00                      | 2,000.00            | 1,894.86            | 1,894.42            | 6.96            | 8.22        | 62.10                 | 3,075.26                          | 5,808.10   | 6,572.22             | 6,557.04              | 15.18                   | 432.955           |                    |         |
| 2,100.00                      | 2,099.99            | 1,998.46            | 1,998.01            | 7.32            | 8.51        | 74.89                 | 3,074.49                          | 5,809.44   | 6,572.79             | 6,556.96              | 15.83                   | 415.297           |                    |         |
| 2,200.00                      | 2,199.96            | 2,097.78            | 2,097.31            | 7.68            | 8.79        | 74.92                 | 3,073.83                          | 5,810.61   | 6,572.85             | 6,556.38              | 16.47                   | 399.179           |                    |         |
| 2,300.00                      | 2,299.86            | 2,189.16            | 2,188.68            | 8.04            | 9.06        | 74.97                 | 3,073.03                          | 5,811.92   | 6,572.56             | 6,555.47              | 17.09                   | 384.660           |                    |         |
| 2,400.00                      | 2,399.68            | 2,284.53            | 2,284.04            | 8.39            | 9.34        | 75.04                 | 3,072.15                          | 5,813.40   | 6,571.92             | 6,554.20              | 17.72                   | 370.814           |                    |         |
| 2,500.00                      | 2,499.37            | 2,383.62            | 2,383.11            | 8.75            | 9.63        | 75.13                 | 3,071.25                          | 5,814.96   | 6,570.88             | 6,552.51              | 18.37                   | 357.622           |                    |         |
| 2,600.00                      | 2,598.90            | 2,485.88            | 2,485.36            | 9.11            | 9.94        | 75.24                 | 3,070.48                          | 5,816.48   | 6,569.39             | 6,550.36              | 19.04                   | 345.078           |                    |         |
| 2,700.00                      | 2,698.26            | 2,590.33            | 2,589.79            | 9.46            | 10.26       | 75.37                 | 3,069.83                          | 5,817.88   | 6,567.41             | 6,547.70              | 19.71                   | 333.186           |                    |         |
| 2,800.00                      | 2,797.40            | 2,692.55            | 2,692.00            | 9.82            | 10.57       | 75.51                 | 3,069.12                          | 5,819.21   | 6,564.94             | 6,544.56              | 20.38                   | 322.108           |                    |         |
| 2,900.00                      | 2,896.30            | 2,791.44            | 2,790.88            | 10.18           | 10.88       | 75.68                 | 3,068.42                          | 5,820.48   | 6,562.05             | 6,541.00              | 21.04                   | 311.814           |                    |         |
| 3,000.00                      | 2,994.93            | 2,884.08            | 2,883.51            | 10.54           | 11.17       | 75.85                 | 3,067.65                          | 5,821.76   | 6,558.80             | 6,537.11              | 21.69                   | 302.354           |                    |         |
| 3,100.00                      | 3,093.26            | 2,981.90            | 2,981.32            | 10.90           | 11.47       | 76.05                 | 3,066.81                          | 5,823.21   | 6,555.25             | 6,532.89              | 22.36                   | 293.170           |                    |         |
| 3,195.07                      | 3,186.42            | 3,074.03            | 3,073.43            | 11.24           | 11.76       | 76.25                 | 3,066.19                          | 5,824.47   | 6,551.52             | 6,528.53              | 22.99                   | 284.915           |                    |         |
| 3,200.00                      | 3,191.25            | 3,078.71            | 3,078.11            | 11.26           | 11.78       | 76.26                 | 3,066.16                          | 5,824.53   | 6,551.32             | 6,528.29              | 23.03                   | 284.502           |                    |         |
| 3,300.00                      | 3,289.08            | 3,163.90            | 3,163.30            | 11.62           | 12.05       | 76.42                 | 3,065.70                          | 5,825.73   | 6,547.36             | 6,523.70              | 23.66                   | 276.713           |                    |         |
| 3,400.00                      | 3,386.91            | 3,243.19            | 3,242.57            | 11.98           | 12.30       | 76.56                 | 3,065.38                          | 5,827.00   | 6,543.71             | 6,519.43              | 24.28                   | 269.520           |                    |         |
| 3,500.00                      | 3,484.74            | 3,327.36            | 3,326.73            | 12.35           | 12.57       | 76.72                 | 3,065.21                          | 5,828.55   | 6,540.41             | 6,515.49              | 24.92                   | 262.505           |                    |         |
| 3,600.00                      | 3,582.58            | 3,436.53            | 3,435.89            | 12.72           | 12.92       | 76.92                 | 3,065.29                          | 5,830.45   | 6,537.22             | 6,511.58              | 25.63                   | 255.014           |                    |         |
| 3,700.00                      | 3,680.41            | 3,546.59            | 3,545.93            | 13.09           | 13.28       | 77.12                 | 3,065.61                          | 5,831.89   | 6,533.80             | 6,507.44              | 26.36                   | 247.874           |                    |         |
| 3,800.00                      | 3,778.24            | 3,647.98            | 3,647.32            | 13.46           | 13.60       | 77.30                 | 3,066.06                          | 5,833.07   | 6,530.39             | 6,503.33              | 27.06                   | 241.343           |                    |         |
| 3,900.00                      | 3,876.08            | 3,742.55            | 3,741.88            | 13.83           | 13.91       | 77.46                 | 3,066.75                          | 5,834.03   | 6,527.02             | 6,499.28              | 27.74                   | 235.311           |                    |         |
| 4,000.00                      | 3,973.91            | 3,841.61            | 3,840.93            | 14.21           | 14.23       | 77.63                 | 3,067.74                          | 5,834.94   | 6,523.75             | 6,495.31              | 28.43                   | 229.436           |                    |         |
| 4,100.00                      | 4,071.74            | 3,941.81            | 3,941.12            | 14.58           | 14.56       | 77.81                 | 3,068.79                          | 5,835.81   | 6,520.50             | 6,491.36              | 29.14                   | 223.796           |                    |         |
| 4,200.00                      | 4,169.57            | 4,061.03            | 4,060.34            | 14.96           | 14.95       | 78.01                 | 3,069.89                          | 5,836.69   | 6,517.16             | 6,487.25              | 29.90                   | 217.949           |                    |         |
| 4,300.00                      | 4,267.41            | 4,159.66            | 4,158.96            | 15.33           | 15.27       | 78.18                 | 3,070.74                          | 5,837.28   | 6,513.72             | 6,483.11              | 30.60                   | 212.844           |                    |         |
| 4,400.00                      | 4,365.24            | 4,265.95            | 4,265.24            | 15.71           | 15.62       | 78.37                 | 3,071.62                          | 5,837.80   | 6,510.23             | 6,478.90              | 31.33                   | 207.788           |                    |         |
| 4,500.00                      | 4,463.07            | 4,366.55            | 4,365.83            | 16.09           | 15.95       | 78.54                 | 3,072.45                          | 5,838.22   | 6,506.73             | 6,474.69              | 32.04                   | 203.070           |                    |         |
| 4,600.00                      | 4,560.90            | 4,465.25            | 4,464.53            | 16.47           | 16.28       | 78.72                 | 3,073.22                          | 5,838.61   | 6,503.26             | 6,470.51              | 32.75                   | 198.585           |                    |         |
| 4,700.00                      | 4,658.74            | 4,563.70            | 4,562.98            | 16.85           | 16.61       | 78.89                 | 3,073.99                          | 5,839.01   | 6,499.86             | 6,466.41              | 33.45                   | 194.288           |                    |         |
| 4,800.00                      | 4,756.57            | 4,668.31            | 4,667.59            | 17.23           | 16.96       | 79.07                 | 3,074.79                          | 5,839.38   | 6,496.46             | 6,462.28              | 34.18                   | 190.049           |                    |         |
| 4,900.00                      | 4,854.40            | 4,775.90            | 4,775.17            | 17.61           | 17.32       | 79.26                 | 3,075.59                          | 5,839.62   | 6,493.00             | 6,458.07              | 34.92                   | 185.926           |                    |         |
| 5,000.00                      | 4,952.23            | 4,875.74            | 4,875.01            | 17.99           | 17.65       | 79.43                 | 3,076.39                          | 5,839.69   | 6,489.49             | 6,453.85              | 35.64                   | 182.098           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 80-GYRO-NS-CT |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                      | 5,050.07            | 4,962.68            | 4,961.94            | 18.37           | 17.94       | 79.58                 | 3,077.25                          | 5,839.75   | 6,486.10             | 6,449.79              | 36.31                   | 178.626           |                    |         |
| 5,200.00                      | 5,147.90            | 5,037.44            | 5,036.70            | 18.75           | 18.19       | 79.71                 | 3,078.21                          | 5,839.91   | 6,483.03             | 6,446.08              | 36.95                   | 175.478           |                    |         |
| 5,300.00                      | 5,245.73            | 5,110.26            | 5,109.51            | 19.14           | 18.44       | 79.83                 | 3,079.38                          | 5,840.31   | 6,480.42             | 6,442.85              | 37.57                   | 172.475           |                    |         |
| 5,400.00                      | 5,343.56            | 5,192.98            | 5,192.21            | 19.52           | 18.71       | 79.97                 | 3,080.88                          | 5,840.95   | 6,478.17             | 6,439.93              | 38.23                   | 169.431           |                    |         |
| 5,500.00                      | 5,441.40            | 5,280.82            | 5,280.03            | 19.90           | 19.01       | 80.12                 | 3,082.63                          | 5,841.77   | 6,476.17             | 6,437.25              | 38.91                   | 166.419           |                    |         |
| 5,600.00                      | 5,539.23            | 5,403.78            | 5,402.96            | 20.29           | 19.43       | 80.32                 | 3,085.03                          | 5,842.70   | 6,474.05             | 6,434.33              | 39.71                   | 163.015           |                    |         |
| 5,700.00                      | 5,637.06            | 5,501.95            | 5,501.12            | 20.67           | 19.76       | 80.49                 | 3,086.99                          | 5,843.27   | 6,471.85             | 6,431.42              | 40.43                   | 160.071           |                    |         |
| 5,800.00                      | 5,734.90            | 5,614.04            | 5,613.18            | 21.05           | 20.14       | 80.68                 | 3,089.09                          | 5,843.93   | 6,469.68             | 6,428.48              | 41.20                   | 157.048           |                    |         |
| 5,900.00                      | 5,832.73            | 5,719.47            | 5,718.61            | 21.44           | 20.49       | 80.86                 | 3,090.36                          | 5,844.50   | 6,467.25             | 6,425.32              | 41.94                   | 154.211           |                    |         |
| 6,000.00                      | 5,930.56            | 5,848.39            | 5,847.52            | 21.83           | 20.93       | 81.09                 | 3,090.67                          | 5,845.48   | 6,464.77             | 6,422.01              | 42.76                   | 151.191           |                    |         |
| 6,100.00                      | 6,028.39            | 5,987.96            | 5,987.07            | 22.21           | 21.41       | 81.36                 | 3,089.44                          | 5,846.27   | 6,461.75             | 6,418.14              | 43.62                   | 148.153           |                    |         |
| 6,200.00                      | 6,126.23            | 6,136.45            | 6,135.55            | 22.60           | 21.91       | 81.65                 | 3,087.36                          | 5,846.18   | 6,458.04             | 6,413.54              | 44.50                   | 145.128           |                    |         |
| 6,300.00                      | 6,224.06            | 6,380.76            | 6,379.80            | 22.98           | 22.73       | 82.10                 | 3,085.00                          | 5,841.95   | 6,453.21             | 6,407.53              | 45.68                   | 141.270           |                    |         |
| 6,400.00                      | 6,321.89            | 6,476.41            | 6,475.40            | 23.37           | 23.06       | 82.27                 | 3,083.51                          | 5,839.09   | 6,446.93             | 6,400.54              | 46.39                   | 138.974           |                    |         |
| 6,500.00                      | 6,419.72            | 6,573.59            | 6,572.53            | 23.76           | 23.38       | 82.46                 | 3,081.42                          | 5,836.66   | 6,440.94             | 6,393.83              | 47.10                   | 136.737           |                    |         |
| 6,600.00                      | 6,517.56            | 6,647.22            | 6,646.12            | 24.14           | 23.63       | 82.61                 | 3,079.63                          | 5,834.91   | 6,435.07             | 6,387.32              | 47.75                   | 134.776           |                    |         |
| 6,700.00                      | 6,615.39            | 6,713.27            | 6,712.13            | 24.53           | 23.86       | 82.73                 | 3,078.28                          | 5,833.64   | 6,429.78             | 6,381.42              | 48.36                   | 132.944           |                    |         |
| 6,800.00                      | 6,713.22            | 6,808.81            | 6,807.65            | 24.92           | 24.18       | 82.92                 | 3,076.65                          | 5,832.02   | 6,424.90             | 6,375.82              | 49.08                   | 130.917           |                    |         |
| 6,900.00                      | 6,811.05            | 6,953.77            | 6,952.55            | 25.30           | 24.67       | 83.19                 | 3,074.20                          | 5,828.52   | 6,419.35             | 6,369.40              | 49.94                   | 128.531           |                    |         |
| 7,000.00                      | 6,908.89            | 6,978.42            | 6,977.18            | 25.69           | 24.76       | 83.24                 | 3,073.82                          | 5,827.87   | 6,414.21             | 6,363.78              | 50.43                   | 127.186           |                    |         |
| 7,100.00                      | 7,006.72            | 6,978.42            | 6,977.18            | 26.08           | 24.76       | 83.24                 | 3,073.82                          | 5,827.87   | 6,410.59             | 6,359.76              | 50.83                   | 126.110           |                    |         |
| 7,200.00                      | 7,104.55            | 6,978.42            | 6,977.18            | 26.47           | 24.76       | 83.24                 | 3,073.82                          | 5,827.87   | 6,408.52             | 6,357.30              | 51.23                   | 125.104           |                    |         |
| 7,216.87                      | 7,121.05            | 6,978.42            | 6,977.18            | 26.53           | 24.76       | 83.24                 | 3,073.82                          | 5,827.87   | 6,408.33             | 6,357.04              | 51.29                   | 124.941           |                    |         |
| 7,271.60                      | 7,174.68            | 6,978.42            | 6,977.18            | 26.74           | 24.76       | 83.24                 | 3,073.82                          | 5,827.87   | 6,408.05             | 6,356.55              | 51.50                   | 124.429           |                    |         |
| 7,300.00                      | 7,202.57            | 6,978.42            | 6,977.18            | 26.85           | 24.76       | 83.24                 | 3,073.82                          | 5,827.87   | 6,408.12             | 6,356.52              | 51.61                   | 124.173           |                    |         |
| 7,400.00                      | 7,301.06            | 6,978.42            | 6,977.18            | 27.23           | 24.76       | 83.26                 | 3,073.82                          | 5,827.87   | 6,409.59             | 6,357.62              | 51.97                   | 123.328           |                    |         |
| 7,500.00                      | 7,399.97            | 6,978.42            | 6,977.18            | 27.61           | 24.76       | 83.31                 | 3,073.82                          | 5,827.87   | 6,412.92             | 6,360.60              | 52.32                   | 122.568           |                    |         |
| 7,600.00                      | 7,499.23            | 6,978.42            | 6,977.18            | 27.98           | 24.76       | 83.39                 | 3,073.82                          | 5,827.87   | 6,418.11             | 6,365.46              | 52.65                   | 121.892           |                    |         |
| 7,700.00                      | 7,598.77            | 6,978.42            | 6,977.18            | 28.34           | 24.76       | 83.49                 | 3,073.82                          | 5,827.87   | 6,425.16             | 6,372.19              | 52.97                   | 121.298           |                    |         |
| 7,800.00                      | 7,698.53            | 6,978.42            | 6,977.18            | 28.70           | 24.76       | 83.62                 | 3,073.82                          | 5,827.87   | 6,434.05             | 6,380.78              | 53.27                   | 120.785           |                    |         |
| 7,900.00                      | 7,798.44            | 6,978.42            | 6,977.18            | 29.05           | 24.76       | 83.78                 | 3,073.82                          | 5,827.87   | 6,444.76             | 6,391.21              | 53.55                   | 120.349           |                    |         |
| 8,000.00                      | 7,898.42            | 6,978.42            | 6,977.18            | 29.39           | 24.76       | 83.97                 | 3,073.82                          | 5,827.87   | 6,457.29             | 6,403.47              | 53.82                   | 119.990           |                    |         |
| 8,013.58                      | 7,912.00            | 6,978.42            | 6,977.18            | 29.43           | 24.76       | 71.22                 | 3,073.82                          | 5,827.87   | 6,459.13             | 6,405.28              | 53.85                   | 119.946           |                    |         |
| 8,100.00                      | 7,998.42            | 6,978.42            | 6,977.18            | 29.73           | 24.76       | 71.22                 | 3,073.82                          | 5,827.87   | 6,471.51             | 6,417.44              | 54.07                   | 119.696           |                    |         |
| 8,200.00                      | 8,098.42            | 6,978.42            | 6,977.18            | 30.07           | 24.76       | 71.22                 | 3,073.82                          | 5,827.87   | 6,487.24             | 6,432.94              | 54.31                   | 119.454           |                    |         |
| 8,300.00                      | 8,198.42            | 6,978.42            | 6,977.18            | 30.41           | 24.76       | 71.22                 | 3,073.82                          | 5,827.87   | 6,504.48             | 6,449.94              | 54.54                   | 119.264           |                    |         |
| 8,363.62                      | 8,262.04            | 6,978.42            | 6,977.18            | 30.62           | 24.76       | 71.22                 | 3,073.82                          | 5,827.87   | 6,516.21             | 6,461.53              | 54.68                   | 119.168           |                    |         |
| 8,400.00                      | 8,298.40            | 6,978.42            | 6,977.18            | 30.75           | 24.76       | -18.25                | 3,073.82                          | 5,827.87   | 6,522.12             | 6,467.36              | 54.76                   | 119.110           |                    |         |
| 8,450.00                      | 8,348.10            | 6,978.42            | 6,977.18            | 30.91           | 24.76       | -18.10                | 3,073.82                          | 5,827.87   | 6,527.01             | 6,472.15              | 54.86                   | 118.986           |                    |         |
| 8,500.00                      | 8,397.14            | 6,978.42            | 6,977.18            | 31.07           | 24.76       | -18.06                | 3,073.82                          | 5,827.87   | 6,528.14             | 6,473.19              | 54.95                   | 118.801           |                    |         |
| 8,550.00                      | 8,445.15            | 6,978.42            | 6,977.18            | 31.23           | 24.76       | -18.14                | 3,073.82                          | 5,827.87   | 6,525.51             | 6,470.47              | 55.04                   | 118.557           |                    |         |
| 8,600.00                      | 8,491.77            | 6,978.42            | 6,977.18            | 31.38           | 24.76       | -18.34                | 3,073.82                          | 5,827.87   | 6,519.13             | 6,464.01              | 55.13                   | 118.259           |                    |         |
| 8,650.00                      | 8,536.65            | 6,978.42            | 6,977.18            | 31.52           | 24.76       | -18.67                | 3,073.82                          | 5,827.87   | 6,509.04             | 6,453.84              | 55.20                   | 117.907           |                    |         |
| 8,700.00                      | 8,579.43            | 6,978.42            | 6,977.18            | 31.66           | 24.76       | -19.13                | 3,073.82                          | 5,827.87   | 6,495.30             | 6,440.03              | 55.28                   | 117.506           |                    |         |
| 8,750.00                      | 8,619.80            | 6,978.42            | 6,977.18            | 31.80           | 24.76       | -19.75                | 3,073.82                          | 5,827.87   | 6,478.00             | 6,422.66              | 55.34                   | 117.056           |                    |         |
| 8,800.00                      | 8,657.44            | 6,978.42            | 6,977.18            | 31.93           | 24.76       | -20.54                | 3,073.82                          | 5,827.87   | 6,457.23             | 6,401.83              | 55.40                   | 116.560           |                    |         |
| 8,850.00                      | 8,692.08            | 6,978.42            | 6,977.18            | 32.06           | 24.76       | -21.52                | 3,073.82                          | 5,827.87   | 6,433.11             | 6,377.67              | 55.45                   | 116.021           |                    |         |
| 8,900.00                      | 8,723.44            | 6,978.42            | 6,977.18            | 32.19           | 24.76       | -22.75                | 3,073.82                          | 5,827.87   | 6,405.81             | 6,350.32              | 55.49                   | 115.439           |                    |         |
| 8,950.00                      | 8,751.29            | 6,978.42            | 6,977.18            | 32.34           | 24.76       | -24.28                | 3,073.82                          | 5,827.87   | 6,375.48             | 6,319.95              | 55.53                   | 114.817           |                    |         |
| 9,000.00                      | 8,775.42            | 6,978.42            | 6,977.18            | 32.50           | 24.76       | -26.17                | 3,073.82                          | 5,827.87   | 6,342.32             | 6,286.76              | 55.56                   | 114.157           |                    |         |
| 9,050.00                      | 8,795.64            | 6,978.42            | 6,977.18            | 32.67           | 24.76       | -28.52                | 3,073.82                          | 5,827.87   | 6,306.53             | 6,250.94              | 55.58                   | 113.460           |                    |         |
| 9,100.00                      | 8,811.80            | 6,978.42            | 6,977.18            | 32.87           | 24.76       | -31.48                | 3,073.82                          | 5,827.87   | 6,268.34             | 6,212.74              | 55.61                   | 112.729           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw State Com 2H - Wellbore #1 - Wellbore #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | <b>Offset Site Error:</b> | 5.00 ft |
|-------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|---------------------------|---------|
| Survey Program: 80-GYRO-NS-CT                                                                   |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                       |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning                   |         |
| Measured Depth (ft)                                                                             | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                           |         |
| 9,150.00                                                                                        | 8,823.77            | 6,978.42            | 6,977.18            | 33.10           | 24.76       | -35.24                | 3,073.82                          | 5,827.87   | 6,228.01             | 6,172.39              | 55.62                   | 111.966           |                           |         |
| 9,200.00                                                                                        | 8,831.47            | 6,978.42            | 6,977.18            | 33.34           | 24.76       | -40.05                | 3,073.82                          | 5,827.87   | 6,185.80             | 6,130.16              | 55.64                   | 111.174           |                           |         |
| 9,250.00                                                                                        | 8,834.84            | 6,978.42            | 6,977.18            | 33.60           | 24.76       | -46.26                | 3,073.82                          | 5,827.87   | 6,142.00             | 6,086.34              | 55.66                   | 110.354           |                           |         |
| 9,263.62                                                                                        | 8,835.00            | 6,978.42            | 6,977.18            | 33.67           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 6,129.83             | 6,074.17              | 55.66                   | 110.124           |                           |         |
| 9,300.00                                                                                        | 8,835.00            | 6,978.42            | 6,977.18            | 33.88           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 6,097.23             | 6,041.55              | 55.67                   | 109.517           |                           |         |
| 9,400.00                                                                                        | 8,835.00            | 6,978.42            | 6,977.18            | 34.53           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 6,007.83             | 5,952.12              | 55.72                   | 107.829           |                           |         |
| 9,500.00                                                                                        | 8,835.00            | 6,978.42            | 6,977.18            | 35.30           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,918.78             | 5,862.99              | 55.78                   | 106.108           |                           |         |
| 9,600.00                                                                                        | 8,835.00            | 6,978.42            | 6,977.18            | 36.17           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,830.07             | 5,774.21              | 55.87                   | 104.352           |                           |         |
| 9,700.00                                                                                        | 8,835.00            | 6,978.42            | 6,977.18            | 37.13           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,741.74             | 5,685.76              | 55.98                   | 102.562           |                           |         |
| 9,800.00                                                                                        | 8,835.00            | 6,978.42            | 6,977.18            | 38.18           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,653.80             | 5,597.68              | 56.12                   | 100.737           |                           |         |
| 9,900.00                                                                                        | 8,835.00            | 6,978.42            | 6,977.18            | 39.31           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,566.27             | 5,509.97              | 56.30                   | 98.876            |                           |         |
| 10,000.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 40.51           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,479.16             | 5,422.66              | 56.50                   | 96.981            |                           |         |
| 10,100.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 41.78           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,392.50             | 5,335.77              | 56.73                   | 95.052            |                           |         |
| 10,200.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 43.10           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,306.31             | 5,249.31              | 57.00                   | 93.089            |                           |         |
| 10,300.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 44.49           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,220.61             | 5,163.30              | 57.31                   | 91.093            |                           |         |
| 10,400.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 45.92           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,135.43             | 5,077.77              | 57.66                   | 89.067            |                           |         |
| 10,500.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 47.39           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,050.79             | 4,992.75              | 58.05                   | 87.012            |                           |         |
| 10,600.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 48.91           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,966.73             | 4,908.25              | 58.48                   | 84.930            |                           |         |
| 10,700.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 50.47           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,883.26             | 4,824.30              | 58.96                   | 82.825            |                           |         |
| 10,800.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 52.06           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,800.43             | 4,740.94              | 59.49                   | 80.698            |                           |         |
| 10,900.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 53.68           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,718.26             | 4,658.19              | 60.06                   | 78.554            |                           |         |
| 11,000.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 55.32           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,636.79             | 4,576.10              | 60.69                   | 76.397            |                           |         |
| 11,100.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 57.00           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,556.06             | 4,494.68              | 61.38                   | 74.230            |                           |         |
| 11,200.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 58.70           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,476.11             | 4,413.99              | 62.12                   | 72.058            |                           |         |
| 11,300.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 60.41           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,396.98             | 4,334.06              | 62.92                   | 69.886            |                           |         |
| 11,400.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 62.15           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,318.71             | 4,254.94              | 63.78                   | 67.717            |                           |         |
| 11,500.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 63.91           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,241.36             | 4,176.66              | 64.70                   | 65.558            |                           |         |
| 11,600.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 65.69           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,164.97             | 4,099.29              | 65.68                   | 63.413            |                           |         |
| 11,700.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 67.47           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,089.60             | 4,022.87              | 66.73                   | 61.287            |                           |         |
| 11,800.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 69.28           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,015.31             | 3,947.47              | 67.84                   | 59.185            |                           |         |
| 11,900.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 71.09           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,942.15             | 3,873.13              | 69.03                   | 57.111            |                           |         |
| 12,000.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 72.92           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,870.20             | 3,799.92              | 70.28                   | 55.071            |                           |         |
| 12,100.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 74.76           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,799.51             | 3,727.92              | 71.60                   | 53.069            |                           |         |
| 12,200.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 76.61           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,730.17             | 3,657.18              | 72.98                   | 51.110            |                           |         |
| 12,300.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 78.47           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,662.24             | 3,587.80              | 74.44                   | 49.196            |                           |         |
| 12,400.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 80.34           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,595.81             | 3,519.84              | 75.97                   | 47.333            |                           |         |
| 12,500.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 82.22           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,530.97             | 3,453.40              | 77.57                   | 45.523            |                           |         |
| 12,600.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 84.11           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,467.79             | 3,388.57              | 79.23                   | 43.769            |                           |         |
| 12,700.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 86.00           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,406.39             | 3,325.43              | 80.96                   | 42.075            |                           |         |
| 12,800.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 87.90           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,346.84             | 3,264.08              | 82.75                   | 40.444            |                           |         |
| 12,900.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 89.81           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,289.25             | 3,204.64              | 84.61                   | 38.876            |                           |         |
| 13,000.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 91.72           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,233.74             | 3,147.21              | 86.52                   | 37.374            |                           |         |
| 13,100.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 93.64           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,180.39             | 3,091.90              | 88.49                   | 35.940            |                           |         |
| 13,200.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 95.56           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,129.34             | 3,038.83              | 90.51                   | 34.574            |                           |         |
| 13,300.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 97.49           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,080.69             | 2,988.11              | 92.57                   | 33.278            |                           |         |
| 13,400.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 99.42           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,034.55             | 2,939.87              | 94.67                   | 32.052            |                           |         |
| 13,500.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 101.36          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,991.04             | 2,894.24              | 96.81                   | 30.897            |                           |         |
| 13,600.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 103.30          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,950.29             | 2,851.33              | 98.96                   | 29.813            |                           |         |
| 13,700.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 105.25          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,912.40             | 2,811.27              | 101.13                  | 28.799            |                           |         |
| 13,800.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 107.20          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,877.49             | 2,774.19              | 103.30                  | 27.855            |                           |         |
| 13,900.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 109.15          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,845.66             | 2,740.19              | 105.47                  | 26.981            |                           |         |
| 14,000.00                                                                                       | 8,835.00            | 6,978.42            | 6,977.18            | 111.10          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,817.03             | 2,709.41              | 107.62                  | 26.176            |                           |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 80-GYRO-NS-CT |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 14,100.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 113.06          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,791.69             | 2,681.95              | 109.74                  | 25.439            |                    |         |
| 14,200.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 115.03          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,769.72             | 2,657.90              | 111.82                  | 24.769            |                    |         |
| 14,300.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 116.99          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,751.22             | 2,637.37              | 113.86                  | 24.164            |                    |         |
| 14,400.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 118.96          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,736.26             | 2,620.43              | 115.83                  | 23.624            |                    |         |
| 14,500.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 120.93          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,724.88             | 2,607.16              | 117.72                  | 23.147            |                    |         |
| 14,600.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 122.90          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,717.13             | 2,597.60              | 119.53                  | 22.731            |                    |         |
| 14,700.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 124.88          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,713.06             | 2,591.81              | 121.25                  | 22.375            |                    |         |
| 14,760.69                     | 8,835.00            | 6,978.42            | 6,977.18            | 126.08          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,712.38             | 2,590.13              | 122.25                  | 22.188 CC         |                    |         |
| 14,800.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 126.86          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,712.66             | 2,589.79              | 122.87                  | 22.078 ES         |                    |         |
| 14,900.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 128.84          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,715.95             | 2,591.58              | 124.38                  | 21.837            |                    |         |
| 15,000.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 130.82          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,722.91             | 2,597.15              | 125.77                  | 21.650            |                    |         |
| 15,100.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 132.80          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,733.52             | 2,606.48              | 127.04                  | 21.517            |                    |         |
| 15,200.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 134.79          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,747.72             | 2,619.53              | 128.19                  | 21.435            |                    |         |
| 15,300.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 136.78          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,765.47             | 2,636.26              | 129.22                  | 21.402 SF         |                    |         |
| 15,400.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 138.76          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,786.70             | 2,656.58              | 130.12                  | 21.417            |                    |         |
| 15,500.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 140.76          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,811.33             | 2,680.43              | 130.90                  | 21.477            |                    |         |
| 15,600.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 142.75          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,839.27             | 2,707.71              | 131.56                  | 21.582            |                    |         |
| 15,700.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 144.74          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,870.42             | 2,738.32              | 132.10                  | 21.729            |                    |         |
| 15,800.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 146.74          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,904.68             | 2,772.15              | 132.53                  | 21.917            |                    |         |
| 15,900.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 148.73          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,941.94             | 2,809.09              | 132.86                  | 22.144            |                    |         |
| 16,000.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 150.73          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,982.09             | 2,849.01              | 133.08                  | 22.408            |                    |         |
| 16,100.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 152.73          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,025.02             | 2,891.80              | 133.21                  | 22.708            |                    |         |
| 16,200.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 154.73          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,070.60             | 2,937.34              | 133.26                  | 23.042            |                    |         |
| 16,300.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 156.73          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,118.73             | 2,985.50              | 133.23                  | 23.409            |                    |         |
| 16,400.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 158.74          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,169.28             | 3,036.16              | 133.12                  | 23.807            |                    |         |
| 16,500.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 160.74          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,222.14             | 3,089.19              | 132.95                  | 24.236            |                    |         |
| 16,600.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 162.74          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,277.20             | 3,144.48              | 132.72                  | 24.692            |                    |         |
| 16,700.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 164.75          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,334.35             | 3,201.91              | 132.44                  | 25.176            |                    |         |
| 16,800.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 166.76          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,393.49             | 3,261.37              | 132.11                  | 25.686            |                    |         |
| 16,900.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 168.77          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,454.51             | 3,322.76              | 131.75                  | 26.221            |                    |         |
| 17,000.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 170.77          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,517.31             | 3,385.97              | 131.34                  | 26.780            |                    |         |
| 17,100.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 172.78          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,581.81             | 3,450.90              | 130.91                  | 27.361            |                    |         |
| 17,200.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 174.79          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,647.90             | 3,517.45              | 130.45                  | 27.963            |                    |         |
| 17,300.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 176.81          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,715.52             | 3,585.54              | 129.97                  | 28.587            |                    |         |
| 17,400.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 178.82          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,784.56             | 3,655.09              | 129.48                  | 29.230            |                    |         |
| 17,500.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 180.83          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,854.97             | 3,726.00              | 128.97                  | 29.892            |                    |         |
| 17,600.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 182.84          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,926.66             | 3,798.22              | 128.44                  | 30.571            |                    |         |
| 17,700.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 184.86          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,999.56             | 3,871.65              | 127.91                  | 31.268            |                    |         |
| 17,800.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 186.87          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,073.62             | 3,946.24              | 127.38                  | 31.981            |                    |         |
| 17,900.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 188.89          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,148.76             | 4,021.92              | 126.84                  | 32.709            |                    |         |
| 18,000.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 190.91          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,224.94             | 4,098.64              | 126.30                  | 33.452            |                    |         |
| 18,100.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 192.92          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,302.09             | 4,176.33              | 125.76                  | 34.210            |                    |         |
| 18,200.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 194.94          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,380.16             | 4,254.94              | 125.22                  | 34.980            |                    |         |
| 18,300.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 196.96          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,459.11             | 4,334.43              | 124.68                  | 35.764            |                    |         |
| 18,400.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 198.98          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,538.89             | 4,414.74              | 124.15                  | 36.560            |                    |         |
| 18,500.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 201.00          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,619.46             | 4,495.84              | 123.62                  | 37.368            |                    |         |
| 18,600.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 203.02          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,700.77             | 4,577.67              | 123.10                  | 38.186            |                    |         |
| 18,700.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 205.04          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,782.79             | 4,660.21              | 122.59                  | 39.016            |                    |         |
| 18,800.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 207.06          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,865.49             | 4,743.41              | 122.08                  | 39.855            |                    |         |
| 18,900.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 209.08          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,948.82             | 4,827.24              | 121.58                  | 40.705            |                    |         |
| 19,000.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 211.10          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,032.76             | 4,911.68              | 121.09                  | 41.563            |                    |         |
| 19,100.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 213.12          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,117.28             | 4,996.68              | 120.60                  | 42.431            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw State Com 2H - Wellbore #1 - Wellbore #1 |                        |                        |                        |                   |                |                             |                                         |               |                         |                          |                            | <b>Offset Site Error:</b> | 5.00 ft |
|-------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|-------------------------|--------------------------|----------------------------|---------------------------|---------|
| Survey Program: 80-GYRO-NS-CT                                                                   |                        |                        |                        |                   |                |                             |                                         |               |                         |                          |                            | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                       |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                         |                          |                            |                           | Warning |
| Measured Depth<br>(ft)                                                                          | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between Centres<br>(ft) | Between Ellipses<br>(ft) | Minimum Separation<br>(ft) | Separation Factor         |         |
| 19,200.00                                                                                       | 8,835.00               | 6,978.42               | 6,977.18               | 215.15            | 24.76          | -48.25                      | 3,073.82                                | 5,827.87      | 5,202.35                | 5,082.22                 | 120.13                     | 43.306                    |         |
| 19,308.27                                                                                       | 8,835.00               | 6,978.42               | 6,977.18               | 217.34            | 24.76          | -48.25                      | 3,073.82                                | 5,827.87      | 5,295.04                | 5,175.41                 | 119.62                     | 44.264                    |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                        | 0.00                | 0.00                | 0.00                | 0.50            | 5.02        | 90.36                 | -44.33                            | 7,023.37   | 7,023.99             |                       |                         |                   |                    |         |
| 100.00                      | 100.00              | 18.20               | 18.20               | 0.52            | 5.03        | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,017.97              | 5.54                    | 1,266.823         |                    |         |
| 200.00                      | 200.00              | 118.20              | 118.20              | 0.70            | 5.28        | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,017.53              | 5.98                    | 1,174.220         |                    |         |
| 300.00                      | 300.00              | 218.20              | 218.20              | 0.99            | 5.91        | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,016.61              | 6.90                    | 1,017.952         |                    |         |
| 400.00                      | 400.00              | 318.20              | 318.20              | 1.31            | 6.82        | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,015.38              | 8.13                    | 863.956           |                    |         |
| 500.00                      | 500.00              | 418.20              | 418.20              | 1.65            | 7.91        | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,013.96              | 9.56                    | 735.027           |                    |         |
| 600.00                      | 600.00              | 518.20              | 518.20              | 1.99            | 9.11        | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,012.41              | 11.11                   | 632.451           |                    |         |
| 700.00                      | 700.00              | 618.20              | 618.20              | 2.34            | 10.40       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,010.78              | 12.74                   | 551.508           |                    |         |
| 800.00                      | 800.00              | 718.20              | 718.20              | 2.69            | 11.73       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,009.09              | 14.42                   | 487.114           |                    |         |
| 900.00                      | 900.00              | 818.20              | 818.20              | 3.04            | 13.10       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,007.37              | 16.14                   | 435.180           |                    |         |
| 1,000.00                    | 1,000.00            | 918.20              | 918.20              | 3.40            | 14.49       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,005.63              | 17.89                   | 392.669           |                    |         |
| 1,100.00                    | 1,100.00            | 1,018.20            | 1,018.20            | 3.75            | 15.90       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,003.86              | 19.65                   | 357.367           |                    |         |
| 1,200.00                    | 1,200.00            | 1,118.20            | 1,118.20            | 4.11            | 17.33       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,002.08              | 21.44                   | 327.664           |                    |         |
| 1,300.00                    | 1,300.00            | 1,218.20            | 1,218.20            | 4.46            | 18.76       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,000.28              | 23.23                   | 302.370           |                    |         |
| 1,400.00                    | 1,400.00            | 1,318.20            | 1,318.20            | 4.82            | 20.21       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 6,998.48              | 25.03                   | 280.601           |                    |         |
| 1,500.00                    | 1,500.00            | 1,418.20            | 1,418.20            | 5.18            | 21.66       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 6,996.67              | 26.84                   | 261.686           |                    |         |
| 1,600.00                    | 1,600.00            | 1,518.20            | 1,518.20            | 5.53            | 23.12       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 6,994.86              | 28.65                   | 245.111           |                    |         |
| 1,700.00                    | 1,700.00            | 1,618.20            | 1,618.20            | 5.89            | 24.58       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 6,993.04              | 30.47                   | 230.473           |                    |         |
| 1,800.00                    | 1,800.00            | 1,718.20            | 1,718.20            | 6.25            | 26.05       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 6,991.21              | 32.30                   | 217.459           |                    |         |
| 1,900.00                    | 1,900.00            | 1,818.20            | 1,818.20            | 6.61            | 27.52       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 6,989.39              | 34.13                   | 205.816           |                    |         |
| 2,000.00                    | 2,000.00            | 1,918.20            | 1,918.20            | 6.96            | 28.99       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 6,987.56              | 35.96                   | 195.341           |                    |         |
| 2,100.00                    | 2,099.99            | 2,018.19            | 2,018.19            | 7.32            | 30.47       | 103.15                | -44.33                            | 7,023.37   | 7,023.71             | 6,985.92              | 37.79                   | 185.877           |                    |         |
| 2,200.00                    | 2,199.96            | 2,118.16            | 2,118.16            | 7.68            | 31.94       | 103.16                | -44.33                            | 7,023.37   | 7,024.31             | 6,984.69              | 39.62                   | 177.294           |                    |         |
| 2,300.00                    | 2,299.86            | 2,218.06            | 2,218.06            | 8.04            | 33.42       | 103.19                | -44.33                            | 7,023.37   | 7,025.30             | 6,983.85              | 41.45                   | 169.477           |                    |         |
| 2,400.00                    | 2,399.68            | 2,317.88            | 2,317.88            | 8.39            | 34.90       | 103.22                | -44.33                            | 7,023.37   | 7,026.70             | 6,983.41              | 43.29                   | 162.333           |                    |         |
| 2,500.00                    | 2,499.37            | 2,417.57            | 2,417.57            | 8.75            | 36.38       | 103.27                | -44.33                            | 7,023.37   | 7,028.50             | 6,983.38              | 45.12                   | 155.781           |                    |         |
| 2,600.00                    | 2,598.90            | 2,517.10            | 2,517.10            | 9.11            | 37.85       | 103.32                | -44.33                            | 7,023.37   | 7,030.71             | 6,983.77              | 46.95                   | 149.752           |                    |         |
| 2,700.00                    | 2,698.26            | 2,616.46            | 2,616.46            | 9.46            | 39.32       | 103.38                | -44.33                            | 7,023.37   | 7,033.34             | 6,984.57              | 48.78                   | 144.189           |                    |         |
| 2,800.00                    | 2,797.40            | 2,715.60            | 2,715.60            | 9.82            | 40.80       | 103.46                | -44.33                            | 7,023.37   | 7,036.40             | 6,985.79              | 50.61                   | 139.042           |                    |         |
| 2,900.00                    | 2,896.30            | 2,814.50            | 2,814.50            | 10.18           | 42.27       | 103.54                | -44.33                            | 7,023.37   | 7,039.88             | 6,987.45              | 52.43                   | 134.267           |                    |         |
| 3,000.00                    | 2,994.93            | 2,913.13            | 2,913.13            | 10.54           | 43.73       | 103.63                | -44.33                            | 7,023.37   | 7,043.81             | 6,989.56              | 54.26                   | 129.828           |                    |         |
| 3,100.00                    | 3,093.26            | 3,011.46            | 3,011.46            | 10.90           | 45.19       | 103.73                | -44.33                            | 7,023.37   | 7,048.19             | 6,992.12              | 56.08                   | 125.691           |                    |         |
| 3,195.07                    | 3,186.42            | 3,104.62            | 3,104.62            | 11.24           | 46.58       | 103.83                | -44.33                            | 7,023.37   | 7,052.78             | 6,994.98              | 57.80                   | 122.012           |                    |         |
| 3,200.00                    | 3,191.25            | 3,109.45            | 3,109.45            | 11.26           | 46.65       | 103.84                | -44.33                            | 7,023.37   | 7,053.03             | 6,995.14              | 57.89                   | 121.828           |                    |         |
| 3,300.00                    | 3,289.08            | 3,207.28            | 3,207.28            | 11.62           | 48.11       | 104.00                | -44.33                            | 7,023.37   | 7,058.12             | 6,998.40              | 59.71                   | 118.204           |                    |         |
| 3,400.00                    | 3,386.91            | 3,305.11            | 3,305.11            | 11.98           | 49.56       | 104.16                | -44.33                            | 7,023.37   | 7,063.26             | 7,001.73              | 61.53                   | 114.791           |                    |         |
| 3,500.00                    | 3,484.74            | 3,402.94            | 3,402.94            | 12.35           | 51.02       | 104.32                | -44.33                            | 7,023.37   | 7,068.46             | 7,005.10              | 63.35                   | 111.572           |                    |         |
| 3,600.00                    | 3,582.58            | 3,500.78            | 3,500.78            | 12.72           | 52.48       | 104.48                | -44.33                            | 7,023.37   | 7,073.71             | 7,008.53              | 65.18                   | 108.530           |                    |         |
| 3,700.00                    | 3,680.41            | 3,598.61            | 3,598.61            | 13.09           | 53.93       | 104.63                | -44.33                            | 7,023.37   | 7,079.02             | 7,012.02              | 67.00                   | 105.651           |                    |         |
| 3,800.00                    | 3,778.24            | 3,696.44            | 3,696.44            | 13.46           | 55.39       | 104.79                | -44.33                            | 7,023.37   | 7,084.39             | 7,015.56              | 68.83                   | 102.924           |                    |         |
| 3,900.00                    | 3,876.08            | 3,794.28            | 3,794.28            | 13.83           | 56.85       | 104.95                | -44.33                            | 7,023.37   | 7,089.81             | 7,019.15              | 70.66                   | 100.337           |                    |         |
| 4,000.00                    | 3,973.91            | 3,892.11            | 3,892.11            | 14.21           | 58.31       | 105.11                | -44.33                            | 7,023.37   | 7,095.30             | 7,022.81              | 72.49                   | 97.879            |                    |         |
| 4,100.00                    | 4,071.74            | 3,989.94            | 3,989.94            | 14.58           | 59.77       | 105.27                | -44.33                            | 7,023.37   | 7,100.83             | 7,026.51              | 74.32                   | 95.541            |                    |         |
| 4,200.00                    | 4,169.57            | 4,087.77            | 4,087.77            | 14.96           | 61.23       | 105.43                | -44.33                            | 7,023.37   | 7,106.43             | 7,030.27              | 76.15                   | 93.315            |                    |         |
| 4,300.00                    | 4,267.41            | 4,185.61            | 4,185.61            | 15.33           | 62.68       | 105.58                | -44.33                            | 7,023.37   | 7,112.07             | 7,034.09              | 77.99                   | 91.193            |                    |         |
| 4,400.00                    | 4,365.24            | 4,283.44            | 4,283.44            | 15.71           | 64.14       | 105.74                | -44.33                            | 7,023.37   | 7,117.78             | 7,037.96              | 79.82                   | 89.169            |                    |         |
| 4,500.00                    | 4,463.07            | 4,381.27            | 4,381.27            | 16.09           | 65.60       | 105.90                | -44.33                            | 7,023.37   | 7,123.54             | 7,041.88              | 81.66                   | 87.235            |                    |         |
| 4,600.00                    | 4,560.90            | 4,479.10            | 4,479.10            | 16.47           | 67.06       | 106.06                | -44.33                            | 7,023.37   | 7,129.36             | 7,045.86              | 83.50                   | 85.385            |                    |         |
| 4,700.00                    | 4,658.74            | 4,576.94            | 4,576.94            | 16.85           | 68.52       | 106.21                | -44.33                            | 7,023.37   | 7,135.23             | 7,049.89              | 85.33                   | 83.616            |                    |         |
| 4,800.00                    | 4,756.57            | 4,674.77            | 4,674.77            | 17.23           | 69.98       | 106.37                | -44.33                            | 7,023.37   | 7,141.15             | 7,053.98              | 87.17                   | 81.920            |                    |         |
| 4,900.00                    | 4,854.40            | 4,772.60            | 4,772.60            | 17.61           | 71.44       | 106.52                | -44.33                            | 7,023.37   | 7,147.14             | 7,058.12              | 89.01                   | 80.295            |                    |         |
| 5,000.00                    | 4,952.23            | 4,870.43            | 4,870.43            | 17.99           | 72.90       | 106.68                | -44.33                            | 7,023.37   | 7,153.17             | 7,062.32              | 90.85                   | 78.736            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                    | 5,050.07            | 4,968.27            | 4,968.27            | 18.37           | 74.36       | 106.84                | -44.33                            | 7,023.37   | 7,159.26             | 7,066.57              | 92.69                   | 77.238            |                    |         |
| 5,200.00                    | 5,147.90            | 5,066.10            | 5,066.10            | 18.75           | 75.83       | 106.99                | -44.33                            | 7,023.37   | 7,165.41             | 7,070.88              | 94.53                   | 75.799            |                    |         |
| 5,300.00                    | 5,245.73            | 5,163.93            | 5,163.93            | 19.14           | 77.29       | 107.15                | -44.33                            | 7,023.37   | 7,171.61             | 7,075.24              | 96.37                   | 74.415            |                    |         |
| 5,400.00                    | 5,343.56            | 5,261.76            | 5,261.76            | 19.52           | 78.75       | 107.30                | -44.33                            | 7,023.37   | 7,177.86             | 7,079.65              | 98.21                   | 73.084            |                    |         |
| 5,500.00                    | 5,441.40            | 5,359.60            | 5,359.60            | 19.90           | 80.21       | 107.46                | -44.33                            | 7,023.37   | 7,184.17             | 7,084.12              | 100.06                  | 71.801            |                    |         |
| 5,600.00                    | 5,539.23            | 5,457.43            | 5,457.43            | 20.29           | 81.67       | 107.61                | -44.33                            | 7,023.37   | 7,190.54             | 7,088.64              | 101.90                  | 70.565            |                    |         |
| 5,700.00                    | 5,637.06            | 5,555.26            | 5,555.26            | 20.67           | 83.13       | 107.76                | -44.33                            | 7,023.37   | 7,196.95             | 7,093.21              | 103.74                  | 69.373            |                    |         |
| 5,800.00                    | 5,734.90            | 5,653.10            | 5,653.10            | 21.05           | 84.59       | 107.92                | -44.33                            | 7,023.37   | 7,203.42             | 7,097.84              | 105.59                  | 68.223            |                    |         |
| 5,900.00                    | 5,832.73            | 5,750.93            | 5,750.93            | 21.44           | 86.05       | 108.07                | -44.33                            | 7,023.37   | 7,209.95             | 7,102.52              | 107.43                  | 67.113            |                    |         |
| 6,000.00                    | 5,930.56            | 5,848.76            | 5,848.76            | 21.83           | 87.51       | 108.22                | -44.33                            | 7,023.37   | 7,216.53             | 7,107.25              | 109.27                  | 66.041            |                    |         |
| 6,100.00                    | 6,028.39            | 5,946.59            | 5,946.59            | 22.21           | 88.98       | 108.38                | -44.33                            | 7,023.37   | 7,223.16             | 7,112.04              | 111.12                  | 65.004            |                    |         |
| 6,200.00                    | 6,126.23            | 6,044.43            | 6,044.43            | 22.60           | 90.44       | 108.53                | -44.33                            | 7,023.37   | 7,229.84             | 7,116.88              | 112.96                  | 64.002            |                    |         |
| 6,300.00                    | 6,224.06            | 6,142.26            | 6,142.26            | 22.98           | 91.90       | 108.68                | -44.33                            | 7,023.37   | 7,236.58             | 7,121.77              | 114.81                  | 63.032            |                    |         |
| 6,400.00                    | 6,321.89            | 6,240.09            | 6,240.09            | 23.37           | 93.36       | 108.83                | -44.33                            | 7,023.37   | 7,243.37             | 7,126.72              | 116.65                  | 62.093            |                    |         |
| 6,500.00                    | 6,419.72            | 6,337.92            | 6,337.92            | 23.76           | 94.82       | 108.99                | -44.33                            | 7,023.37   | 7,250.21             | 7,131.72              | 118.50                  | 61.184            |                    |         |
| 6,600.00                    | 6,517.56            | 6,435.76            | 6,435.76            | 24.14           | 96.29       | 109.14                | -44.33                            | 7,023.37   | 7,257.11             | 7,136.77              | 120.34                  | 60.303            |                    |         |
| 6,700.00                    | 6,615.39            | 6,533.59            | 6,533.59            | 24.53           | 97.75       | 109.29                | -44.33                            | 7,023.37   | 7,264.06             | 7,141.87              | 122.19                  | 59.448            |                    |         |
| 6,800.00                    | 6,713.22            | 6,631.42            | 6,631.42            | 24.92           | 99.21       | 109.44                | -44.33                            | 7,023.37   | 7,271.06             | 7,147.02              | 124.04                  | 58.620            |                    |         |
| 6,900.00                    | 6,811.05            | 6,729.25            | 6,729.25            | 25.30           | 100.67      | 109.59                | -44.33                            | 7,023.37   | 7,278.11             | 7,152.23              | 125.88                  | 57.816            |                    |         |
| 7,000.00                    | 6,908.89            | 6,827.09            | 6,827.09            | 25.69           | 102.13      | 109.74                | -44.33                            | 7,023.37   | 7,285.22             | 7,157.49              | 127.73                  | 57.036            |                    |         |
| 7,100.00                    | 7,006.72            | 6,924.92            | 6,924.92            | 26.08           | 103.60      | 109.89                | -44.33                            | 7,023.37   | 7,292.38             | 7,162.80              | 129.58                  | 56.278            |                    |         |
| 7,200.00                    | 7,104.55            | 7,022.75            | 7,022.75            | 26.47           | 105.06      | 110.04                | -44.33                            | 7,023.37   | 7,299.58             | 7,168.16              | 131.42                  | 55.542            |                    |         |
| 7,216.87                    | 7,121.05            | 7,039.25            | 7,039.25            | 26.53           | 105.30      | 110.07                | -44.33                            | 7,023.37   | 7,300.81             | 7,169.07              | 131.74                  | 55.420            |                    |         |
| 7,300.00                    | 7,202.57            | 7,120.77            | 7,120.77            | 26.85           | 106.52      | 110.27                | -44.33                            | 7,023.37   | 7,306.53             | 7,173.26              | 133.27                  | 54.824            |                    |         |
| 7,400.00                    | 7,301.06            | 7,219.26            | 7,219.26            | 27.23           | 107.99      | 110.48                | -44.33                            | 7,023.37   | 7,312.63             | 7,177.51              | 135.12                  | 54.118            |                    |         |
| 7,500.00                    | 7,399.97            | 7,318.17            | 7,318.17            | 27.61           | 109.47      | 110.66                | -44.33                            | 7,023.37   | 7,317.85             | 7,180.87              | 136.97                  | 53.425            |                    |         |
| 7,600.00                    | 7,499.23            | 7,417.43            | 7,417.43            | 27.98           | 110.96      | 110.81                | -44.33                            | 7,023.37   | 7,322.16             | 7,183.33              | 138.83                  | 52.744            |                    |         |
| 7,700.00                    | 7,598.77            | 7,516.97            | 7,516.97            | 28.34           | 112.45      | 110.92                | -44.33                            | 7,023.37   | 7,325.56             | 7,184.88              | 140.67                  | 52.074            |                    |         |
| 7,800.00                    | 7,698.53            | 7,616.73            | 7,616.73            | 28.70           | 113.94      | 111.01                | -44.33                            | 7,023.37   | 7,328.03             | 7,185.51              | 142.52                  | 51.417            |                    |         |
| 7,900.00                    | 7,798.44            | 7,716.64            | 7,716.64            | 29.05           | 115.43      | 111.06                | -44.33                            | 7,023.37   | 7,329.57             | 7,185.20              | 144.36                  | 50.771            |                    |         |
| 8,000.00                    | 7,898.42            | 7,816.62            | 7,816.62            | 29.39           | 116.92      | 111.08                | -44.33                            | 7,023.37   | 7,330.17             | 7,183.96              | 146.20                  | 50.137            |                    |         |
| 8,013.58                    | 7,912.00            | 7,830.20            | 7,830.20            | 29.43           | 117.13      | 98.30                 | -44.33                            | 7,023.37   | 7,330.17             | 7,183.72              | 146.45                  | 50.052            |                    |         |
| 8,100.00                    | 7,998.42            | 7,916.62            | 7,916.62            | 29.73           | 118.42      | 98.30                 | -44.33                            | 7,023.37   | 7,330.17             | 7,182.14              | 148.04                  | 49.516            |                    |         |
| 8,200.00                    | 8,098.42            | 8,016.62            | 8,016.62            | 30.07           | 119.91      | 98.30                 | -44.33                            | 7,023.37   | 7,330.17             | 7,180.30              | 149.87                  | 48.910            |                    |         |
| 8,300.00                    | 8,198.42            | 8,116.62            | 8,116.62            | 30.41           | 121.41      | 98.30                 | -44.33                            | 7,023.37   | 7,330.17             | 7,178.47              | 151.71                  | 48.318            |                    |         |
| 8,363.62                    | 8,262.04            | 8,180.24            | 8,180.24            | 30.62           | 122.36      | 98.30                 | -44.33                            | 7,023.37   | 7,330.17             | 7,177.30              | 152.87                  | 47.949            |                    |         |
| 8,400.00                    | 8,298.40            | 8,216.60            | 8,216.60            | 30.75           | 122.90      | 8.66                  | -44.33                            | 7,023.37   | 7,329.03             | 7,175.49              | 153.54                  | 47.734            |                    |         |
| 8,450.00                    | 8,348.10            | 8,266.30            | 8,266.30            | 30.91           | 123.65      | 8.75                  | -44.33                            | 7,023.37   | 7,323.75             | 7,169.31              | 154.44                  | 47.421            |                    |         |
| 8,500.00                    | 8,397.14            | 8,315.34            | 8,315.34            | 31.07           | 124.38      | 8.91                  | -44.33                            | 7,023.37   | 7,314.20             | 7,158.88              | 155.33                  | 47.089            |                    |         |
| 8,550.00                    | 8,445.15            | 8,363.35            | 8,363.35            | 31.23           | 125.10      | 9.15                  | -44.33                            | 7,023.37   | 7,300.47             | 7,144.28              | 156.19                  | 46.741            |                    |         |
| 8,600.00                    | 8,491.77            | 8,409.97            | 8,409.97            | 31.38           | 125.80      | 9.48                  | -44.33                            | 7,023.37   | 7,282.65             | 7,125.62              | 157.03                  | 46.379            |                    |         |
| 8,650.00                    | 8,536.65            | 8,454.85            | 8,454.85            | 31.52           | 126.47      | 9.92                  | -44.33                            | 7,023.37   | 7,260.88             | 7,103.06              | 157.82                  | 46.006            |                    |         |
| 8,700.00                    | 8,579.43            | 8,497.63            | 8,497.63            | 31.66           | 127.11      | 10.48                 | -44.33                            | 7,023.37   | 7,235.34             | 7,076.76              | 158.58                  | 45.626            |                    |         |
| 8,750.00                    | 8,619.80            | 8,538.00            | 8,538.00            | 31.80           | 127.71      | 11.20                 | -44.33                            | 7,023.37   | 7,206.21             | 7,046.92              | 159.29                  | 45.240            |                    |         |
| 8,800.00                    | 8,657.44            | 8,575.64            | 8,575.64            | 31.93           | 128.27      | 12.12                 | -44.33                            | 7,023.37   | 7,173.71             | 7,013.77              | 159.94                  | 44.852            |                    |         |
| 8,850.00                    | 8,692.08            | 8,610.28            | 8,610.28            | 32.06           | 128.79      | 13.30                 | -44.33                            | 7,023.37   | 7,138.10             | 6,977.56              | 160.54                  | 44.463            |                    |         |
| 8,900.00                    | 8,723.44            | 8,641.64            | 8,641.64            | 32.19           | 129.26      | 14.84                 | -44.33                            | 7,023.37   | 7,099.65             | 6,938.57              | 161.08                  | 44.076            |                    |         |
| 8,950.00                    | 8,751.29            | 8,669.49            | 8,669.49            | 32.34           | 129.68      | 16.89                 | -44.33                            | 7,023.37   | 7,058.65             | 6,897.10              | 161.55                  | 43.693            |                    |         |
| 9,000.00                    | 8,775.42            | 8,693.62            | 8,693.62            | 32.50           | 130.04      | 19.70                 | -44.33                            | 7,023.37   | 7,015.41             | 6,853.45              | 161.96                  | 43.316            |                    |         |
| 9,050.00                    | 8,795.64            | 8,713.84            | 8,713.84            | 32.67           | 130.34      | 23.72                 | -44.33                            | 7,023.37   | 6,970.27             | 6,807.97              | 162.30                  | 42.948            |                    |         |
| 9,100.00                    | 8,811.80            | 8,730.00            | 8,730.00            | 32.87           | 130.58      | 29.77                 | -44.33                            | 7,023.37   | 6,923.57             | 6,761.00              | 162.57                  | 42.589            |                    |         |
| 9,150.00                    | 8,823.77            | 8,741.97            | 8,741.97            | 33.10           | 130.76      | 39.48                 | -44.33                            | 7,023.37   | 6,875.66             | 6,712.89              | 162.77                  | 42.242            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,200.00                    | 8,831.47            | 8,749.67            | 8,749.67            | 33.34           | 130.88      | 55.87                 | -44.33                            | 7,023.37   | 6,826.92             | 6,664.02              | 162.90                  | 41.908            |                    |         |
| 9,250.00                    | 8,834.84            | 8,753.04            | 8,753.04            | 33.60           | 130.93      | 81.79                 | -44.33                            | 7,023.37   | 6,777.71             | 6,614.74              | 162.97                  | 41.589            |                    |         |
| 9,263.62                    | 8,835.00            | 8,753.20            | 8,753.20            | 33.67           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,764.27             | 6,601.29              | 162.98                  | 41.505            |                    |         |
| 9,300.00                    | 8,835.00            | 8,753.20            | 8,753.20            | 33.88           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,728.38             | 6,565.39              | 162.99                  | 41.281            |                    |         |
| 9,400.00                    | 8,835.00            | 8,753.20            | 8,753.20            | 34.53           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,629.75             | 6,466.72              | 163.02                  | 40.667            |                    |         |
| 9,500.00                    | 8,835.00            | 8,753.20            | 8,753.20            | 35.30           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,531.16             | 6,368.09              | 163.06                  | 40.053            |                    |         |
| 9,600.00                    | 8,835.00            | 8,753.20            | 8,753.20            | 36.17           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,432.61             | 6,269.50              | 163.11                  | 39.437            |                    |         |
| 9,700.00                    | 8,835.00            | 8,753.20            | 8,753.20            | 37.13           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,334.11             | 6,170.95              | 163.17                  | 38.820            |                    |         |
| 9,800.00                    | 8,835.00            | 8,753.20            | 8,753.20            | 38.18           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,235.66             | 6,072.43              | 163.23                  | 38.202            |                    |         |
| 9,900.00                    | 8,835.00            | 8,753.20            | 8,753.20            | 39.31           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,137.26             | 5,973.96              | 163.30                  | 37.583            |                    |         |
| 10,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 40.51           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,038.91             | 5,875.53              | 163.38                  | 36.963            |                    |         |
| 10,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 41.78           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,940.62             | 5,777.15              | 163.47                  | 36.342            |                    |         |
| 10,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 43.10           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,842.38             | 5,678.82              | 163.56                  | 35.719            |                    |         |
| 10,300.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 44.49           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,744.20             | 5,580.53              | 163.67                  | 35.096            |                    |         |
| 10,400.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 45.92           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,646.09             | 5,482.30              | 163.79                  | 34.471            |                    |         |
| 10,500.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 47.39           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,548.05             | 5,384.13              | 163.92                  | 33.846            |                    |         |
| 10,600.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 48.91           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,450.07             | 5,286.01              | 164.07                  | 33.219            |                    |         |
| 10,700.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 50.47           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,352.18             | 5,187.95              | 164.23                  | 32.590            |                    |         |
| 10,800.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 52.06           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,254.36             | 5,089.96              | 164.40                  | 31.961            |                    |         |
| 10,900.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 53.68           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,156.62             | 4,992.03              | 164.59                  | 31.330            |                    |         |
| 11,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 55.32           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,058.98             | 4,894.18              | 164.80                  | 30.698            |                    |         |
| 11,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 57.00           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,961.42             | 4,796.40              | 165.02                  | 30.065            |                    |         |
| 11,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 58.70           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,863.97             | 4,698.70              | 165.27                  | 29.431            |                    |         |
| 11,300.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 60.41           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,766.62             | 4,601.08              | 165.54                  | 28.795            |                    |         |
| 11,400.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 62.15           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,669.38             | 4,503.56              | 165.83                  | 28.158            |                    |         |
| 11,500.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 63.91           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,572.27             | 4,406.12              | 166.15                  | 27.520            |                    |         |
| 11,600.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 65.69           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,475.28             | 4,308.79              | 166.49                  | 26.880            |                    |         |
| 11,700.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 67.47           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,378.42             | 4,211.56              | 166.86                  | 26.239            |                    |         |
| 11,800.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 69.28           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,281.71             | 4,114.44              | 167.27                  | 25.597            |                    |         |
| 11,900.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 71.09           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,185.16             | 4,017.45              | 167.71                  | 24.954            |                    |         |
| 12,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 72.92           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,088.77             | 3,920.58              | 168.19                  | 24.310            |                    |         |
| 12,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 74.76           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,992.56             | 3,823.85              | 168.71                  | 23.665            |                    |         |
| 12,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 76.61           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,896.54             | 3,727.26              | 169.28                  | 23.019            |                    |         |
| 12,300.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 78.47           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,800.72             | 3,630.83              | 169.89                  | 22.372            |                    |         |
| 12,400.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 80.34           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,705.13             | 3,534.57              | 170.55                  | 21.724            |                    |         |
| 12,500.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 82.22           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,609.77             | 3,438.50              | 171.28                  | 21.076            |                    |         |
| 12,600.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 84.11           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,514.67             | 3,342.61              | 172.06                  | 20.427            |                    |         |
| 12,700.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 86.00           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,419.85             | 3,246.95              | 172.91                  | 19.779            |                    |         |
| 12,800.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 87.90           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,325.34             | 3,151.51              | 173.83                  | 19.130            |                    |         |
| 12,900.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 89.81           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,231.16             | 3,056.33              | 174.83                  | 18.482            |                    |         |
| 13,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 91.72           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,137.33             | 2,961.42              | 175.91                  | 17.835            |                    |         |
| 13,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 93.64           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,043.90             | 2,866.81              | 177.09                  | 17.188            |                    |         |
| 13,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 95.56           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,950.90             | 2,772.53              | 178.37                  | 16.544            |                    |         |
| 13,300.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 97.49           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,858.37             | 2,678.61              | 179.76                  | 15.901            |                    |         |
| 13,400.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 99.42           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,766.36             | 2,585.09              | 181.27                  | 15.261            |                    |         |
| 13,500.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 101.36          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,674.93             | 2,492.02              | 182.91                  | 14.624            |                    |         |
| 13,600.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 103.30          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,584.13             | 2,399.43              | 184.70                  | 13.991            |                    |         |
| 13,700.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 105.25          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,494.03             | 2,307.40              | 186.64                  | 13.363            |                    |         |
| 13,800.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 107.20          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,404.72             | 2,215.98              | 188.75                  | 12.741            |                    |         |
| 13,900.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 109.15          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,316.28             | 2,125.24              | 191.04                  | 12.125            |                    |         |
| 14,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 111.10          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,228.82             | 2,035.28              | 193.54                  | 11.516            |                    |         |
| 14,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 113.06          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,142.46             | 1,946.21              | 196.25                  | 10.917            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 14,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 115.03          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,057.33             | 1,858.12              | 199.21                  | 10.328            |                    |         |
| 14,300.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 116.99          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,973.60             | 1,771.18              | 202.42                  | 9.750             |                    |         |
| 14,400.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 118.96          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,891.45             | 1,685.54              | 205.90                  | 9.186             |                    |         |
| 14,500.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 120.93          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,811.09             | 1,601.41              | 209.68                  | 8.637             |                    |         |
| 14,600.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 122.90          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,732.78             | 1,519.01              | 213.77                  | 8.106             |                    |         |
| 14,700.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 124.88          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,656.81             | 1,438.62              | 218.19                  | 7.593             |                    |         |
| 14,800.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 126.86          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,583.51             | 1,360.57              | 222.93                  | 7.103             |                    |         |
| 14,900.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 128.84          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,513.27             | 1,285.26              | 228.01                  | 6.637             |                    |         |
| 15,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 130.82          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,446.53             | 1,213.14              | 233.39                  | 6.198             |                    |         |
| 15,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 132.80          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,383.81             | 1,144.77              | 239.04                  | 5.789             |                    |         |
| 15,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 134.79          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,325.68             | 1,080.77              | 244.91                  | 5.413             |                    |         |
| 15,300.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 136.78          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,272.75             | 1,021.87              | 250.88                  | 5.073             |                    |         |
| 15,400.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 138.76          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,225.72             | 968.87                | 256.84                  | 4.772             | Alert              |         |
| 15,500.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 140.76          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,185.27             | 922.65                | 262.61                  | 4.513             | Alert              |         |
| 15,600.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 142.75          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,152.10             | 884.11                | 267.99                  | 4.299             | Alert              |         |
| 15,700.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 144.74          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,126.86             | 854.11                | 272.75                  | 4.131             | Alert              |         |
| 15,800.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 146.74          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,110.09             | 833.41                | 276.69                  | 4.012             | Alert              |         |
| 15,900.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 148.73          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,102.17             | 822.57                | 279.60                  | 3.942             | Alert              |         |
| 15,937.60                   | 8,835.00            | 8,753.20            | 8,753.20            | 149.48          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,101.53             | 821.12                | 280.41                  | 3.928             | Alert, CC, ES      |         |
| 16,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 150.73          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,103.30             | 821.91                | 281.39                  | 3.921             | Alert, SF          |         |
| 16,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 152.73          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,113.44             | 831.44                | 282.00                  | 3.948             | Alert              |         |
| 16,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 154.73          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,132.35             | 850.87                | 281.48                  | 4.023             | Alert              |         |
| 16,300.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 156.73          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,159.61             | 879.65                | 279.97                  | 4.142             | Alert              |         |
| 16,400.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 158.74          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,194.65             | 917.04                | 277.61                  | 4.303             | Alert              |         |
| 16,500.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 160.74          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,236.80             | 962.18                | 274.61                  | 4.504             | Alert              |         |
| 16,600.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 162.74          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,285.36             | 1,014.20              | 271.16                  | 4.740             | Alert              |         |
| 16,700.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 164.75          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,339.64             | 1,072.22              | 267.41                  | 5.010             |                    |         |
| 16,800.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 166.76          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,398.97             | 1,135.44              | 263.52                  | 5.309             |                    |         |
| 16,900.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 168.77          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,462.73             | 1,203.14              | 259.60                  | 5.635             |                    |         |
| 17,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 170.77          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,530.38             | 1,274.67              | 255.72                  | 5.985             |                    |         |
| 17,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 172.78          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,601.42             | 1,349.48              | 251.94                  | 6.356             |                    |         |
| 17,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 174.79          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,675.42             | 1,427.11              | 248.31                  | 6.747             |                    |         |
| 17,300.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 176.81          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,752.00             | 1,507.15              | 244.85                  | 7.155             |                    |         |
| 17,400.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 178.82          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,830.84             | 1,589.27              | 241.57                  | 7.579             |                    |         |
| 17,500.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 180.83          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,911.67             | 1,673.19              | 238.47                  | 8.016             |                    |         |
| 17,600.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 182.84          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,994.23             | 1,758.67              | 235.56                  | 8.466             |                    |         |
| 17,700.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 184.86          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,078.33             | 1,845.50              | 232.83                  | 8.926             |                    |         |
| 17,800.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 186.87          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,163.77             | 1,933.51              | 230.27                  | 9.397             |                    |         |
| 17,900.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 188.89          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,250.42             | 2,022.56              | 227.87                  | 9.876             |                    |         |
| 18,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 190.91          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,338.14             | 2,112.52              | 225.62                  | 10.363            |                    |         |
| 18,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 192.92          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,426.80             | 2,203.28              | 223.52                  | 10.857            |                    |         |
| 18,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 194.94          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,516.31             | 2,294.77              | 221.55                  | 11.358            |                    |         |
| 18,300.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 196.96          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,606.59             | 2,386.89              | 219.70                  | 11.864            |                    |         |
| 18,400.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 198.98          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,697.55             | 2,479.58              | 217.97                  | 12.376            |                    |         |
| 18,500.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 201.00          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,789.14             | 2,572.78              | 216.35                  | 12.892            |                    |         |
| 18,600.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 203.02          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,881.28             | 2,666.44              | 214.83                  | 13.412            |                    |         |
| 18,700.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 205.04          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,973.93             | 2,760.52              | 213.41                  | 13.936            |                    |         |
| 18,800.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 207.06          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,067.04             | 2,854.97              | 212.06                  | 14.463            |                    |         |
| 18,900.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 209.08          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,160.57             | 2,949.77              | 210.80                  | 14.993            |                    |         |
| 19,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 211.10          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,254.49             | 3,044.87              | 209.61                  | 15.526            |                    |         |
| 19,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 213.12          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,348.76             | 3,140.26              | 208.49                  | 16.062            |                    |         |
| 19,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 215.15          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,443.35             | 3,235.91              | 207.44                  | 16.599            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree State #001 - Wellbore #1 - Wellbore #1 |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 5.00 ft |
|------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|---------|
| Survey Program: 10-INC-ONLY                                                              |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                | Offset                 | Semi Major Axis        |                        | Distance          |                |                             |                                         |               |                            |                             |                               |                           | Warning |
| Measured Depth<br>(ft)                                                                   | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |         |
| 19,308.27                                                                                | 8,835.00               | 8,753.20               | 8,753.20               | 217.34            | 130.93         | 90.00                       | -44.33                                  | 7,023.37      | 3,546.10                   | 3,339.73                    | 206.36                        | 17.184                    |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft  |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|----------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 10.00 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning  |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |          |
| 0.00                        | 0.00                | 0.00                | 0.00                | 0.50            | 10.00       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.50             |                       |                         |                   |                    |          |
| 100.00                      | 100.00              | 80.20               | 80.20               | 0.52            | 10.10       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,062.82              | 10.62                   | 289.452           |                    |          |
| 200.00                      | 200.00              | 180.20              | 180.20              | 0.70            | 10.58       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,062.16              | 11.28                   | 272.506           |                    |          |
| 300.00                      | 300.00              | 280.20              | 280.20              | 0.99            | 11.40       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,061.05              | 12.38                   | 248.175           |                    |          |
| 400.00                      | 400.00              | 380.20              | 380.20              | 1.31            | 12.49       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,059.63              | 13.80                   | 222.661           |                    |          |
| 500.00                      | 500.00              | 480.20              | 480.20              | 1.65            | 13.80       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,057.99              | 15.45                   | 198.947           |                    |          |
| 600.00                      | 600.00              | 580.20              | 580.20              | 1.99            | 15.27       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,056.18              | 17.26                   | 178.087           |                    |          |
| 700.00                      | 700.00              | 680.20              | 680.20              | 2.34            | 16.85       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,054.25              | 19.19                   | 160.176           |                    |          |
| 800.00                      | 800.00              | 780.20              | 780.20              | 2.69            | 18.52       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,052.23              | 21.21                   | 144.929           |                    |          |
| 900.00                      | 900.00              | 880.20              | 880.20              | 3.04            | 20.25       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,050.14              | 23.29                   | 131.954           |                    |          |
| 1,000.00                    | 1,000.00            | 980.20              | 980.20              | 3.40            | 22.03       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,048.01              | 25.43                   | 120.869           |                    |          |
| 1,100.00                    | 1,100.00            | 1,080.20            | 1,080.20            | 3.75            | 23.85       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,045.83              | 27.60                   | 111.343           |                    |          |
| 1,200.00                    | 1,200.00            | 1,180.20            | 1,180.20            | 4.11            | 25.70       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,043.62              | 29.81                   | 103.102           |                    |          |
| 1,300.00                    | 1,300.00            | 1,280.20            | 1,280.20            | 4.46            | 27.58       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,041.39              | 32.04                   | 95.922            |                    |          |
| 1,400.00                    | 1,400.00            | 1,380.20            | 1,380.20            | 4.82            | 29.47       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,039.14              | 34.29                   | 89.626            |                    |          |
| 1,500.00                    | 1,500.00            | 1,480.20            | 1,480.20            | 5.18            | 31.38       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,036.87              | 36.56                   | 84.067            |                    |          |
| 1,600.00                    | 1,600.00            | 1,580.20            | 1,580.20            | 5.53            | 33.31       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,034.59              | 38.84                   | 79.130            |                    |          |
| 1,700.00                    | 1,700.00            | 1,680.20            | 1,680.20            | 5.89            | 35.24       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,032.30              | 41.13                   | 74.720            |                    |          |
| 1,800.00                    | 1,800.00            | 1,780.20            | 1,780.20            | 6.25            | 37.19       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,030.00              | 43.43                   | 70.760            |                    |          |
| 1,900.00                    | 1,900.00            | 1,880.20            | 1,880.20            | 6.61            | 39.14       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,027.69              | 45.74                   | 67.187            |                    |          |
| 2,000.00                    | 2,000.00            | 1,980.20            | 1,980.20            | 6.96            | 41.10       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,025.37              | 48.06                   | 63.948            |                    |          |
| 2,100.00                    | 2,099.99            | 2,080.19            | 2,080.19            | 7.32            | 43.06       | 46.16                 | 2,566.83                          | 1,690.39   | 3,072.83             | 3,022.45              | 50.38                   | 60.989            |                    |          |
| 2,200.00                    | 2,199.96            | 2,180.16            | 2,180.16            | 7.68            | 45.03       | 46.21                 | 2,566.83                          | 1,690.39   | 3,071.02             | 3,018.31              | 52.71                   | 58.262            |                    |          |
| 2,300.00                    | 2,299.86            | 2,280.06            | 2,280.06            | 8.04            | 47.01       | 46.29                 | 2,566.83                          | 1,690.39   | 3,068.00             | 3,012.96              | 55.04                   | 55.741            |                    |          |
| 2,400.00                    | 2,399.68            | 2,379.88            | 2,379.88            | 8.39            | 48.98       | 46.40                 | 2,566.83                          | 1,690.39   | 3,063.78             | 3,006.41              | 57.37                   | 53.401            |                    |          |
| 2,500.00                    | 2,499.37            | 2,479.57            | 2,479.57            | 8.75            | 50.96       | 46.55                 | 2,566.83                          | 1,690.39   | 3,058.37             | 2,998.66              | 59.71                   | 51.224            |                    |          |
| 2,600.00                    | 2,598.90            | 2,579.10            | 2,579.10            | 9.11            | 52.93       | 46.73                 | 2,566.83                          | 1,690.39   | 3,051.77             | 2,989.73              | 62.04                   | 49.191            |                    |          |
| 2,700.00                    | 2,698.26            | 2,678.46            | 2,678.46            | 9.46            | 54.91       | 46.94                 | 2,566.83                          | 1,690.39   | 3,044.00             | 2,979.63              | 64.37                   | 47.288            |                    |          |
| 2,800.00                    | 2,797.40            | 2,777.60            | 2,777.60            | 9.82            | 56.88       | 47.19                 | 2,566.83                          | 1,690.39   | 3,035.07             | 2,968.37              | 66.70                   | 45.502            |                    |          |
| 2,900.00                    | 2,896.30            | 2,876.50            | 2,876.50            | 10.18           | 58.85       | 47.46                 | 2,566.83                          | 1,690.39   | 3,024.99             | 2,955.96              | 69.03                   | 43.821            |                    |          |
| 3,000.00                    | 2,994.93            | 2,975.13            | 2,975.13            | 10.54           | 60.82       | 47.78                 | 2,566.83                          | 1,690.39   | 3,013.78             | 2,942.42              | 71.36                   | 42.235            |                    |          |
| 3,100.00                    | 3,093.26            | 3,073.46            | 3,073.46            | 10.90           | 62.78       | 48.12                 | 2,566.83                          | 1,690.39   | 3,001.46             | 2,927.78              | 73.68                   | 40.736            |                    |          |
| 3,195.07                    | 3,186.42            | 3,166.62            | 3,166.62            | 11.24           | 64.65       | 48.49                 | 2,566.83                          | 1,690.39   | 2,988.74             | 2,912.86              | 75.88                   | 39.385            |                    |          |
| 3,200.00                    | 3,191.25            | 3,171.45            | 3,171.45            | 11.26           | 64.74       | 48.50                 | 2,566.83                          | 1,690.39   | 2,988.06             | 2,912.06              | 76.00                   | 39.317            |                    |          |
| 3,300.00                    | 3,289.08            | 3,269.28            | 3,269.28            | 11.62           | 66.70       | 48.80                 | 2,566.83                          | 1,690.39   | 2,974.21             | 2,895.89              | 78.32                   | 37.976            |                    |          |
| 3,400.00                    | 3,386.91            | 3,367.11            | 3,367.11            | 11.98           | 68.66       | 49.10                 | 2,566.83                          | 1,690.39   | 2,960.44             | 2,879.80              | 80.64                   | 36.713            |                    |          |
| 3,500.00                    | 3,484.74            | 3,464.94            | 3,464.94            | 12.35           | 70.62       | 49.40                 | 2,566.83                          | 1,690.39   | 2,946.75             | 2,863.79              | 82.96                   | 35.519            |                    |          |
| 3,600.00                    | 3,582.58            | 3,562.78            | 3,562.78            | 12.72           | 72.58       | 49.70                 | 2,566.83                          | 1,690.39   | 2,933.15             | 2,847.86              | 85.29                   | 34.391            |                    |          |
| 3,700.00                    | 3,680.41            | 3,660.61            | 3,660.61            | 13.09           | 74.54       | 50.00                 | 2,566.83                          | 1,690.39   | 2,919.63             | 2,832.01              | 87.62                   | 33.322            |                    |          |
| 3,800.00                    | 3,778.24            | 3,758.44            | 3,758.44            | 13.46           | 76.50       | 50.31                 | 2,566.83                          | 1,690.39   | 2,906.19             | 2,816.24              | 89.95                   | 32.309            |                    |          |
| 3,900.00                    | 3,876.08            | 3,856.28            | 3,856.28            | 13.83           | 78.46       | 50.63                 | 2,566.83                          | 1,690.39   | 2,892.84             | 2,800.56              | 92.28                   | 31.348            |                    |          |
| 4,000.00                    | 3,973.91            | 3,954.11            | 3,954.11            | 14.21           | 80.43       | 50.94                 | 2,566.83                          | 1,690.39   | 2,879.57             | 2,784.96              | 94.62                   | 30.434            |                    |          |
| 4,100.00                    | 4,071.74            | 4,051.94            | 4,051.94            | 14.58           | 82.39       | 51.26                 | 2,566.83                          | 1,690.39   | 2,866.40             | 2,769.44              | 96.95                   | 29.565            |                    |          |
| 4,200.00                    | 4,169.57            | 4,149.77            | 4,149.77            | 14.96           | 84.35       | 51.58                 | 2,566.83                          | 1,690.39   | 2,853.31             | 2,754.02              | 99.29                   | 28.736            |                    |          |
| 4,300.00                    | 4,267.41            | 4,247.61            | 4,247.61            | 15.33           | 86.32       | 51.90                 | 2,566.83                          | 1,690.39   | 2,840.31             | 2,738.68              | 101.63                  | 27.947            |                    |          |
| 4,400.00                    | 4,365.24            | 4,345.44            | 4,345.44            | 15.71           | 88.29       | 52.23                 | 2,566.83                          | 1,690.39   | 2,827.41             | 2,723.44              | 103.97                  | 27.193            |                    |          |
| 4,500.00                    | 4,463.07            | 4,443.27            | 4,443.27            | 16.09           | 90.25       | 52.55                 | 2,566.83                          | 1,690.39   | 2,814.60             | 2,708.28              | 106.32                  | 26.474            |                    |          |
| 4,600.00                    | 4,560.90            | 4,541.10            | 4,541.10            | 16.47           | 92.22       | 52.89                 | 2,566.83                          | 1,690.39   | 2,801.88             | 2,693.22              | 108.66                  | 25.785            |                    |          |
| 4,700.00                    | 4,658.74            | 4,638.94            | 4,638.94            | 16.85           | 94.19       | 53.22                 | 2,566.83                          | 1,690.39   | 2,789.26             | 2,678.26              | 111.01                  | 25.127            |                    |          |
| 4,800.00                    | 4,756.57            | 4,736.77            | 4,736.77            | 17.23           | 96.16       | 53.56                 | 2,566.83                          | 1,690.39   | 2,776.74             | 2,663.39              | 113.35                  | 24.496            |                    |          |
| 4,900.00                    | 4,854.40            | 4,834.60            | 4,834.60            | 17.61           | 98.13       | 53.90                 | 2,566.83                          | 1,690.39   | 2,764.31             | 2,648.61              | 115.70                  | 23.892            |                    |          |
| 5,000.00                    | 4,952.23            | 4,932.43            | 4,932.43            | 17.99           | 100.10      | 54.24                 | 2,566.83                          | 1,690.39   | 2,751.99             | 2,633.94              | 118.05                  | 23.312            |                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft  |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|----------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 10.00 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |          |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |          |
| 5,100.00                    | 5,050.07            | 5,030.27            | 5,030.27            | 18.37           | 102.07      | 54.59                 | 2,566.83                          | 1,690.39   | 2,739.76             | 2,619.36              | 120.40                  | 22.755            |                    |          |
| 5,200.00                    | 5,147.90            | 5,128.10            | 5,128.10            | 18.75           | 104.04      | 54.94                 | 2,566.83                          | 1,690.39   | 2,727.64             | 2,604.89              | 122.75                  | 22.221            |                    |          |
| 5,300.00                    | 5,245.73            | 5,225.93            | 5,225.93            | 19.14           | 106.01      | 55.29                 | 2,566.83                          | 1,690.39   | 2,715.62             | 2,590.52              | 125.10                  | 21.707            |                    |          |
| 5,400.00                    | 5,343.56            | 5,323.76            | 5,323.76            | 19.52           | 107.98      | 55.64                 | 2,566.83                          | 1,690.39   | 2,703.71             | 2,576.26              | 127.46                  | 21.213            |                    |          |
| 5,500.00                    | 5,441.40            | 5,421.60            | 5,421.60            | 19.90           | 109.95      | 56.00                 | 2,566.83                          | 1,690.39   | 2,691.91             | 2,562.10              | 129.81                  | 20.737            |                    |          |
| 5,600.00                    | 5,539.23            | 5,519.43            | 5,519.43            | 20.29           | 111.92      | 56.36                 | 2,566.83                          | 1,690.39   | 2,680.21             | 2,548.04              | 132.16                  | 20.280            |                    |          |
| 5,700.00                    | 5,637.06            | 5,617.26            | 5,617.26            | 20.67           | 113.89      | 56.73                 | 2,566.83                          | 1,690.39   | 2,668.62             | 2,534.10              | 134.52                  | 19.838            |                    |          |
| 5,800.00                    | 5,734.90            | 5,715.10            | 5,715.10            | 21.05           | 115.86      | 57.10                 | 2,566.83                          | 1,690.39   | 2,657.14             | 2,520.27              | 136.87                  | 19.413            |                    |          |
| 5,900.00                    | 5,832.73            | 5,812.93            | 5,812.93            | 21.44           | 117.84      | 57.47                 | 2,566.83                          | 1,690.39   | 2,645.77             | 2,506.54              | 139.23                  | 19.003            |                    |          |
| 6,000.00                    | 5,930.56            | 5,910.76            | 5,910.76            | 21.83           | 119.81      | 57.84                 | 2,566.83                          | 1,690.39   | 2,634.52             | 2,492.94              | 141.59                  | 18.607            |                    |          |
| 6,100.00                    | 6,028.39            | 6,008.59            | 6,008.59            | 22.21           | 121.78      | 58.22                 | 2,566.83                          | 1,690.39   | 2,623.38             | 2,479.44              | 143.94                  | 18.225            |                    |          |
| 6,200.00                    | 6,126.23            | 6,106.43            | 6,106.43            | 22.60           | 123.75      | 58.60                 | 2,566.83                          | 1,690.39   | 2,612.36             | 2,466.06              | 146.30                  | 17.856            |                    |          |
| 6,300.00                    | 6,224.06            | 6,204.26            | 6,204.26            | 22.98           | 125.73      | 58.98                 | 2,566.83                          | 1,690.39   | 2,601.46             | 2,452.80              | 148.66                  | 17.499            |                    |          |
| 6,400.00                    | 6,321.89            | 6,302.09            | 6,302.09            | 23.37           | 127.70      | 59.37                 | 2,566.83                          | 1,690.39   | 2,590.68             | 2,439.66              | 151.02                  | 17.155            |                    |          |
| 6,500.00                    | 6,419.72            | 6,399.92            | 6,399.92            | 23.76           | 129.67      | 59.76                 | 2,566.83                          | 1,690.39   | 2,580.02             | 2,426.64              | 153.38                  | 16.821            |                    |          |
| 6,600.00                    | 6,517.56            | 6,497.76            | 6,497.76            | 24.14           | 131.65      | 60.15                 | 2,566.83                          | 1,690.39   | 2,569.48             | 2,413.74              | 155.74                  | 16.499            |                    |          |
| 6,700.00                    | 6,615.39            | 6,595.59            | 6,595.59            | 24.53           | 133.62      | 60.54                 | 2,566.83                          | 1,690.39   | 2,559.06             | 2,400.96              | 158.10                  | 16.186            |                    |          |
| 6,800.00                    | 6,713.22            | 6,693.42            | 6,693.42            | 24.92           | 135.60      | 60.94                 | 2,566.83                          | 1,690.39   | 2,548.77             | 2,388.31              | 160.46                  | 15.884            |                    |          |
| 6,900.00                    | 6,811.05            | 6,791.25            | 6,791.25            | 25.30           | 137.57      | 61.35                 | 2,566.83                          | 1,690.39   | 2,538.61             | 2,375.79              | 162.82                  | 15.591            |                    |          |
| 7,000.00                    | 6,908.89            | 6,889.09            | 6,889.09            | 25.69           | 139.54      | 61.75                 | 2,566.83                          | 1,690.39   | 2,528.58             | 2,363.40              | 165.18                  | 15.308            |                    |          |
| 7,100.00                    | 7,006.72            | 6,986.92            | 6,986.92            | 26.08           | 141.52      | 62.16                 | 2,566.83                          | 1,690.39   | 2,518.68             | 2,351.13              | 167.55                  | 15.033            |                    |          |
| 7,200.00                    | 7,104.55            | 7,084.75            | 7,084.75            | 26.47           | 143.49      | 62.57                 | 2,566.83                          | 1,690.39   | 2,508.91             | 2,339.00              | 169.91                  | 14.766            |                    |          |
| 7,216.87                    | 7,121.05            | 7,101.25            | 7,101.25            | 26.53           | 143.83      | 62.64                 | 2,566.83                          | 1,690.39   | 2,507.27             | 2,336.96              | 170.31                  | 14.722            |                    |          |
| 7,300.00                    | 7,202.57            | 7,182.77            | 7,182.77            | 26.85           | 145.47      | 62.86                 | 2,566.83                          | 1,690.39   | 2,499.68             | 2,327.40              | 172.27                  | 14.510            |                    |          |
| 7,400.00                    | 7,301.06            | 7,281.26            | 7,281.26            | 27.23           | 147.46      | 63.11                 | 2,566.83                          | 1,690.39   | 2,491.73             | 2,317.09              | 174.64                  | 14.267            |                    |          |
| 7,500.00                    | 7,399.97            | 7,380.17            | 7,380.17            | 27.61           | 149.46      | 63.22                 | 2,566.83                          | 1,690.39   | 2,485.05             | 2,308.03              | 177.02                  | 14.038            |                    |          |
| 7,600.00                    | 7,499.23            | 7,479.43            | 7,479.43            | 27.98           | 151.46      | 63.49                 | 2,566.83                          | 1,690.39   | 2,479.60             | 2,300.21              | 179.39                  | 13.822            |                    |          |
| 7,700.00                    | 7,598.77            | 7,578.97            | 7,578.97            | 28.34           | 153.47      | 63.63                 | 2,566.83                          | 1,690.39   | 2,475.35             | 2,293.58              | 181.76                  | 13.619            |                    |          |
| 7,800.00                    | 7,698.53            | 7,678.73            | 7,678.73            | 28.70           | 155.48      | 63.73                 | 2,566.83                          | 1,690.39   | 2,472.29             | 2,288.15              | 184.13                  | 13.427            |                    |          |
| 7,900.00                    | 7,798.44            | 7,778.64            | 7,778.64            | 29.05           | 157.50      | 63.80                 | 2,566.83                          | 1,690.39   | 2,470.39             | 2,283.89              | 186.50                  | 13.246            |                    |          |
| 8,000.00                    | 7,898.42            | 7,878.62            | 7,878.62            | 29.39           | 159.52      | 63.82                 | 2,566.83                          | 1,690.39   | 2,469.66             | 2,280.79              | 188.87                  | 13.076            |                    |          |
| 8,013.58                    | 7,912.00            | 7,892.20            | 7,892.20            | 29.43           | 159.79      | 51.04                 | 2,566.83                          | 1,690.39   | 2,469.65             | 2,280.46              | 189.19                  | 13.054            |                    |          |
| 8,100.00                    | 7,998.42            | 7,978.62            | 7,978.62            | 29.73           | 161.54      | 51.04                 | 2,566.83                          | 1,690.39   | 2,469.65             | 2,278.42              | 191.22                  | 12.915            |                    |          |
| 8,200.00                    | 8,098.42            | 8,078.62            | 8,078.62            | 30.07           | 163.56      | 51.04                 | 2,566.83                          | 1,690.39   | 2,469.65             | 2,276.06              | 193.58                  | 12.757            |                    |          |
| 8,300.00                    | 8,198.42            | 8,178.62            | 8,178.62            | 30.41           | 165.58      | 51.04                 | 2,566.83                          | 1,690.39   | 2,469.65             | 2,273.70              | 195.95                  | 12.604            |                    |          |
| 8,363.62                    | 8,262.04            | 8,242.24            | 8,242.24            | 30.62           | 166.86      | 51.04                 | 2,566.83                          | 1,690.39   | 2,469.65             | 2,272.20              | 197.45                  | 12.508            |                    |          |
| 8,400.00                    | 8,298.40            | 8,278.60            | 8,278.60            | 30.75           | 167.60      | -38.69                | 2,566.83                          | 1,690.39   | 2,468.74             | 2,270.44              | 198.30                  | 12.449            |                    |          |
| 8,450.00                    | 8,348.10            | 8,328.30            | 8,328.30            | 30.91           | 168.60      | -39.03                | 2,566.83                          | 1,690.39   | 2,464.57             | 2,265.10              | 199.47                  | 12.356            |                    |          |
| 8,500.00                    | 8,397.14            | 8,377.34            | 8,377.34            | 31.07           | 169.59      | -39.66                | 2,566.83                          | 1,690.39   | 2,457.04             | 2,256.42              | 200.62                  | 12.247            |                    |          |
| 8,550.00                    | 8,445.15            | 8,425.35            | 8,425.35            | 31.23           | 170.56      | -40.57                | 2,566.83                          | 1,690.39   | 2,446.24             | 2,244.49              | 201.75                  | 12.125            |                    |          |
| 8,600.00                    | 8,491.77            | 8,471.97            | 8,471.97            | 31.38           | 171.50      | -41.80                | 2,566.83                          | 1,690.39   | 2,432.27             | 2,229.42              | 202.85                  | 11.990            |                    |          |
| 8,650.00                    | 8,536.65            | 8,516.85            | 8,516.85            | 31.52           | 172.41      | -43.36                | 2,566.83                          | 1,690.39   | 2,415.28             | 2,211.37              | 203.91                  | 11.845            |                    |          |
| 8,700.00                    | 8,579.43            | 8,559.63            | 8,559.63            | 31.66           | 173.27      | -45.28                | 2,566.83                          | 1,690.39   | 2,395.43             | 2,190.51              | 204.92                  | 11.690            |                    |          |
| 8,750.00                    | 8,619.80            | 8,600.00            | 8,600.00            | 31.80           | 174.09      | -47.56                | 2,566.83                          | 1,690.39   | 2,372.94             | 2,167.07              | 205.88                  | 11.526            |                    |          |
| 8,800.00                    | 8,657.44            | 8,637.64            | 8,637.64            | 31.93           | 174.85      | -50.25                | 2,566.83                          | 1,690.39   | 2,348.04             | 2,141.27              | 206.77                  | 11.356            |                    |          |
| 8,850.00                    | 8,692.08            | 8,672.28            | 8,672.28            | 32.06           | 175.55      | -53.35                | 2,566.83                          | 1,690.39   | 2,320.97             | 2,113.37              | 207.60                  | 11.180            |                    |          |
| 8,900.00                    | 8,723.44            | 8,703.64            | 8,703.64            | 32.19           | 176.18      | -56.88                | 2,566.83                          | 1,690.39   | 2,292.02             | 2,083.65              | 208.37                  | 11.000            |                    |          |
| 8,950.00                    | 8,751.29            | 8,731.49            | 8,731.49            | 32.34           | 176.75      | -60.81                | 2,566.83                          | 1,690.39   | 2,261.47             | 2,052.42              | 209.06                  | 10.818            |                    |          |
| 9,000.00                    | 8,775.42            | 8,755.62            | 8,755.62            | 32.50           | 177.23      | -65.10                | 2,566.83                          | 1,690.39   | 2,229.64             | 2,019.97              | 209.67                  | 10.634            |                    |          |
| 9,050.00                    | 8,795.64            | 8,775.84            | 8,775.84            | 32.67           | 177.64      | -69.70                | 2,566.83                          | 1,690.39   | 2,196.84             | 1,986.63              | 210.21                  | 10.451            |                    |          |
| 9,100.00                    | 8,811.80            | 8,792.00            | 8,792.00            | 32.87           | 177.97      | -74.49                | 2,566.83                          | 1,690.39   | 2,163.39             | 1,952.71              | 210.68                  | 10.269            |                    |          |
| 9,150.00                    | 8,823.77            | 8,803.97            | 8,803.97            | 33.10           | 178.21      | -79.36                | 2,566.83                          | 1,690.39   | 2,129.62             | 1,918.55              | 211.06                  | 10.090            |                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft  |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|----------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 10.00 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |          |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |          |
| 9,200.00                    | 8,831.47            | 8,811.67            | 8,811.67            | 33.34           | 178.36      | -84.17                | 2,566.83                          | 1,690.39   | 2,095.84             | 1,884.47              | 211.37                  | 9.915             |                    |          |
| 9,250.00                    | 8,834.84            | 8,815.04            | 8,815.04            | 33.60           | 178.43      | -88.79                | 2,566.83                          | 1,690.39   | 2,062.38             | 1,850.77              | 211.61                  | 9.746             |                    |          |
| 9,263.62                    | 8,835.00            | 8,815.20            | 8,815.20            | 33.67           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,053.35             | 1,841.69              | 211.66                  | 9.701             |                    |          |
| 9,300.00                    | 8,835.00            | 8,815.20            | 8,815.20            | 33.88           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,029.50             | 1,817.71              | 211.79                  | 9.582             |                    |          |
| 9,400.00                    | 8,835.00            | 8,815.20            | 8,815.20            | 34.53           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,965.91             | 1,753.67              | 212.25                  | 9.262             |                    |          |
| 9,500.00                    | 8,835.00            | 8,815.20            | 8,815.20            | 35.30           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,905.46             | 1,692.63              | 212.83                  | 8.953             |                    |          |
| 9,600.00                    | 8,835.00            | 8,815.20            | 8,815.20            | 36.17           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,848.44             | 1,634.88              | 213.55                  | 8.656             |                    |          |
| 9,700.00                    | 8,835.00            | 8,815.20            | 8,815.20            | 37.13           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,795.18             | 1,580.76              | 214.42                  | 8.372             |                    |          |
| 9,800.00                    | 8,835.00            | 8,815.20            | 8,815.20            | 38.18           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,746.03             | 1,530.59              | 215.44                  | 8.104             |                    |          |
| 9,900.00                    | 8,835.00            | 8,815.20            | 8,815.20            | 39.31           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,701.34             | 1,484.73              | 216.61                  | 7.855             |                    |          |
| 10,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 40.51           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,661.48             | 1,443.56              | 217.91                  | 7.625             |                    |          |
| 10,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 41.78           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,626.79             | 1,407.45              | 219.34                  | 7.417             |                    |          |
| 10,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 43.10           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,597.62             | 1,376.75              | 220.87                  | 7.233             |                    |          |
| 10,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 44.49           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,574.28             | 1,351.81              | 222.47                  | 7.076             |                    |          |
| 10,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 45.92           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,557.01             | 1,332.91              | 224.10                  | 6.948             |                    |          |
| 10,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 47.39           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,546.04             | 1,320.30              | 225.74                  | 6.849             |                    |          |
| 10,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 48.91           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,541.49             | 1,314.14              | 227.34                  | 6.780             |                    |          |
| 10,620.27                   | 8,835.00            | 8,815.20            | 8,815.20            | 49.23           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,541.35             | 1,313.69              | 227.66                  | 6.770 CC, ES      |                    |          |
| 10,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 50.47           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,543.41             | 1,314.54              | 228.87                  | 6.744             |                    |          |
| 10,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 52.06           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,551.80             | 1,321.49              | 230.30                  | 6.738 SF          |                    |          |
| 10,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 53.68           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,566.53             | 1,334.92              | 231.61                  | 6.764             |                    |          |
| 11,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 55.32           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,587.44             | 1,354.66              | 232.78                  | 6.820             |                    |          |
| 11,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 57.00           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,614.28             | 1,380.49              | 233.79                  | 6.905             |                    |          |
| 11,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 58.70           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,646.77             | 1,412.11              | 234.66                  | 7.018             |                    |          |
| 11,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 60.41           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,684.58             | 1,449.20              | 235.38                  | 7.157             |                    |          |
| 11,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 62.15           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,727.36             | 1,491.39              | 235.96                  | 7.320             |                    |          |
| 11,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 63.91           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,774.74             | 1,538.32              | 236.42                  | 7.507             |                    |          |
| 11,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 65.69           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,826.38             | 1,589.62              | 236.76                  | 7.714             |                    |          |
| 11,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 67.47           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,881.91             | 1,644.92              | 237.00                  | 7.941             |                    |          |
| 11,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 69.28           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,941.02             | 1,703.86              | 237.15                  | 8.185             |                    |          |
| 11,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 71.09           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,003.37             | 1,766.14              | 237.23                  | 8.445             |                    |          |
| 12,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 72.92           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,068.68             | 1,831.43              | 237.25                  | 8.719             |                    |          |
| 12,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 74.76           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,136.68             | 1,899.45              | 237.22                  | 9.007             |                    |          |
| 12,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 76.61           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,207.11             | 1,969.96              | 237.15                  | 9.307             |                    |          |
| 12,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 78.47           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,279.75             | 2,042.70              | 237.05                  | 9.617             |                    |          |
| 12,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 80.34           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,354.41             | 2,117.48              | 236.92                  | 9.938             |                    |          |
| 12,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 82.22           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,430.88             | 2,194.11              | 236.77                  | 10.267            |                    |          |
| 12,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 84.11           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,509.01             | 2,272.40              | 236.61                  | 10.604            |                    |          |
| 12,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 86.00           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,588.64             | 2,352.21              | 236.43                  | 10.949            |                    |          |
| 12,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 87.90           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,669.65             | 2,433.39              | 236.25                  | 11.300            |                    |          |
| 12,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 89.81           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,751.90             | 2,515.83              | 236.07                  | 11.657            |                    |          |
| 13,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 91.72           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,835.30             | 2,599.42              | 235.88                  | 12.020            |                    |          |
| 13,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 93.64           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,919.73             | 2,684.04              | 235.69                  | 12.388            |                    |          |
| 13,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 95.56           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,005.13             | 2,769.63              | 235.50                  | 12.761            |                    |          |
| 13,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 97.49           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,091.40             | 2,856.08              | 235.32                  | 13.137            |                    |          |
| 13,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 99.42           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,178.47             | 2,943.34              | 235.13                  | 13.518            |                    |          |
| 13,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 101.36          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,266.29             | 3,031.33              | 234.96                  | 13.902            |                    |          |
| 13,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 103.30          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,354.79             | 3,120.00              | 234.78                  | 14.289            |                    |          |
| 13,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 105.25          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,443.91             | 3,209.30              | 234.61                  | 14.679            |                    |          |
| 13,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 107.20          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,533.62             | 3,299.17              | 234.45                  | 15.072            |                    |          |
| 13,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 109.15          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,623.87             | 3,389.58              | 234.29                  | 15.467            |                    |          |
| 14,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 111.10          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,714.62             | 3,480.48              | 234.14                  | 15.865            |                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft  |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|----------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 10.00 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |          |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |          |
| 14,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 113.06          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,805.83             | 3,571.84              | 233.99                  | 16.265            |                    |          |
| 14,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 115.03          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,897.47             | 3,663.62              | 233.85                  | 16.667            |                    |          |
| 14,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 116.99          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,989.51             | 3,755.80              | 233.71                  | 17.070            |                    |          |
| 14,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 118.96          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,081.93             | 3,848.35              | 233.58                  | 17.476            |                    |          |
| 14,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 120.93          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,174.70             | 3,941.25              | 233.45                  | 17.883            |                    |          |
| 14,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 122.90          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,267.79             | 4,034.46              | 233.33                  | 18.291            |                    |          |
| 14,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 124.88          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,361.19             | 4,127.98              | 233.21                  | 18.700            |                    |          |
| 14,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 126.86          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,454.88             | 4,221.78              | 233.10                  | 19.111            |                    |          |
| 14,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 128.84          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,548.83             | 4,315.84              | 233.00                  | 19.523            |                    |          |
| 15,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 130.82          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,643.04             | 4,410.15              | 232.90                  | 19.936            |                    |          |
| 15,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 132.80          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,737.49             | 4,504.69              | 232.80                  | 20.350            |                    |          |
| 15,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 134.79          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,832.16             | 4,599.45              | 232.71                  | 20.765            |                    |          |
| 15,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 136.78          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,927.04             | 4,694.41              | 232.62                  | 21.181            |                    |          |
| 15,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 138.76          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,022.11             | 4,789.58              | 232.54                  | 21.597            |                    |          |
| 15,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 140.76          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,117.38             | 4,884.92              | 232.46                  | 22.014            |                    |          |
| 15,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 142.75          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,212.82             | 4,980.44              | 232.38                  | 22.432            |                    |          |
| 15,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 144.74          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,308.43             | 5,076.12              | 232.31                  | 22.850            |                    |          |
| 15,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 146.74          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,404.20             | 5,171.96              | 232.25                  | 23.269            |                    |          |
| 15,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 148.73          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,500.12             | 5,267.94              | 232.18                  | 23.689            |                    |          |
| 16,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 150.73          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,596.19             | 5,364.06              | 232.12                  | 24.109            |                    |          |
| 16,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 152.73          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,692.39             | 5,460.32              | 232.07                  | 24.529            |                    |          |
| 16,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 154.73          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,788.71             | 5,556.70              | 232.01                  | 24.950            |                    |          |
| 16,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 156.73          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,885.16             | 5,653.20              | 231.96                  | 25.371            |                    |          |
| 16,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 158.74          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,981.73             | 5,749.81              | 231.92                  | 25.792            |                    |          |
| 16,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 160.74          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,078.41             | 5,846.53              | 231.87                  | 26.214            |                    |          |
| 16,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 162.74          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,175.19             | 5,943.36              | 231.83                  | 26.636            |                    |          |
| 16,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 164.75          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,272.08             | 6,040.28              | 231.80                  | 27.059            |                    |          |
| 16,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 166.76          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,369.06             | 6,137.29              | 231.76                  | 27.481            |                    |          |
| 16,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 168.77          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,466.13             | 6,234.40              | 231.73                  | 27.904            |                    |          |
| 17,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 170.77          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,563.29             | 6,331.59              | 231.70                  | 28.327            |                    |          |
| 17,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 172.78          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,660.53             | 6,428.86              | 231.67                  | 28.750            |                    |          |
| 17,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 174.79          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,757.86             | 6,526.21              | 231.65                  | 29.173            |                    |          |
| 17,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 176.81          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,855.26             | 6,623.63              | 231.63                  | 29.596            |                    |          |
| 17,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 178.82          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,952.74             | 6,721.13              | 231.61                  | 30.019            |                    |          |
| 17,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 180.83          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,050.28             | 6,818.69              | 231.59                  | 30.443            |                    |          |
| 17,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 182.84          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,147.90             | 6,916.32              | 231.58                  | 30.866            |                    |          |
| 17,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 184.86          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,245.58             | 7,014.01              | 231.57                  | 31.289            |                    |          |
| 17,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 186.87          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,343.32             | 7,111.76              | 231.56                  | 31.713            |                    |          |
| 17,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 188.89          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,441.12             | 7,209.57              | 231.55                  | 32.136            |                    |          |
| 18,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 190.91          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,538.98             | 7,307.44              | 231.54                  | 32.560            |                    |          |
| 18,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 192.92          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,636.90             | 7,405.36              | 231.54                  | 32.983            |                    |          |
| 18,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 194.94          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,734.87             | 7,503.33              | 231.54                  | 33.407            |                    |          |
| 18,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 196.96          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,832.88             | 7,601.35              | 231.54                  | 33.830            |                    |          |
| 18,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 198.98          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,930.95             | 7,699.42              | 231.54                  | 34.253            |                    |          |
| 18,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 201.00          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,029.07             | 7,797.53              | 231.54                  | 34.677            |                    |          |
| 18,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 203.02          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,127.23             | 7,895.69              | 231.55                  | 35.100            |                    |          |
| 18,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 205.04          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,225.44             | 7,993.89              | 231.55                  | 35.523            |                    |          |
| 18,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 207.06          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,323.69             | 8,092.13              | 231.56                  | 35.946            |                    |          |
| 18,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 209.08          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,421.98             | 8,190.41              | 231.57                  | 36.369            |                    |          |
| 19,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 211.10          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,520.31             | 8,288.73              | 231.59                  | 36.791            |                    |          |
| 19,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 213.12          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,618.68             | 8,387.08              | 231.60                  | 37.214            |                    |          |
| 19,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 215.15          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,717.09             | 8,485.47              | 231.61                  | 37.636            |                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b>   |                        | Sec 14-T21S-R27E - Allied State Com 1 (Active) - Wellbore #1 - Wellbore #1 |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 0.00 ft  |
|------------------------|------------------------|----------------------------------------------------------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|----------|
| Survey Program:        |                        | 10-INC-ONLY                                                                |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 10.00 ft |
| Reference              |                        | Offset                                                                     |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                           | Warning  |
| Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Measured Depth<br>(ft)                                                     | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |          |
| 19,308.27              | 8,835.00               | 8,815.20                                                                   | 8,815.20               | 217.34            | 178.44         | -90.00                      | 2,566.83                                | 1,690.39      | 8,823.67                   | 8,592.04                    | 231.63                        | 38.093                    |          |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Site Error: | 0.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                    | Warning |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor  |         |
| 0.00                        | 0.00                | 0.00                | 0.00                | 0.50            | 0.50        | 165.02                | -1,408.43                         | 376.84     | 1,458.02             |                       |                         |                    |         |
| 100.00                      | 100.00              | 89.20               | 89.20               | 0.52            | 1.29        | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,456.17              | 1.80                    | 807.758            |         |
| 200.00                      | 200.00              | 189.20              | 189.20              | 0.70            | 2.73        | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,454.54              | 3.43                    | 424.811            |         |
| 300.00                      | 300.00              | 289.20              | 289.20              | 0.99            | 4.21        | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,452.78              | 5.20                    | 280.459            |         |
| 400.00                      | 400.00              | 389.20              | 389.20              | 1.31            | 5.70        | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,450.97              | 7.01                    | 207.982            |         |
| 500.00                      | 500.00              | 489.20              | 489.20              | 1.65            | 7.19        | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,449.14              | 8.84                    | 164.926            |         |
| 600.00                      | 600.00              | 589.20              | 589.20              | 1.99            | 8.69        | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,447.30              | 10.68                   | 136.523            |         |
| 700.00                      | 700.00              | 689.20              | 689.20              | 2.34            | 10.18       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,445.45              | 12.52                   | 116.418            |         |
| 800.00                      | 800.00              | 789.20              | 789.20              | 2.69            | 11.68       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,443.60              | 14.37                   | 101.453            |         |
| 900.00                      | 900.00              | 889.20              | 889.20              | 3.04            | 13.18       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,441.76              | 16.22                   | 89.886             |         |
| 1,000.00                    | 1,000.00            | 989.20              | 989.20              | 3.40            | 14.67       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,439.90              | 18.07                   | 80.680             |         |
| 1,100.00                    | 1,100.00            | 1,089.20            | 1,089.20            | 3.75            | 16.17       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,438.05              | 19.92                   | 73.181             |         |
| 1,200.00                    | 1,200.00            | 1,189.20            | 1,189.20            | 4.11            | 17.67       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,436.20              | 21.78                   | 66.955             |         |
| 1,300.00                    | 1,300.00            | 1,289.20            | 1,289.20            | 4.46            | 19.16       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,434.35              | 23.63                   | 61.704             |         |
| 1,400.00                    | 1,400.00            | 1,389.20            | 1,389.20            | 4.82            | 20.66       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,432.49              | 25.48                   | 57.216             |         |
| 1,500.00                    | 1,500.00            | 1,489.20            | 1,489.20            | 5.18            | 22.16       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,430.64              | 27.34                   | 53.335             |         |
| 1,600.00                    | 1,600.00            | 1,589.20            | 1,589.20            | 5.53            | 23.66       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,428.79              | 29.19                   | 49.947             |         |
| 1,700.00                    | 1,700.00            | 1,689.20            | 1,689.20            | 5.89            | 25.15       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,426.93              | 31.04                   | 46.964             |         |
| 1,800.00                    | 1,800.00            | 1,789.20            | 1,789.20            | 6.25            | 26.65       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,425.08              | 32.90                   | 44.316             |         |
| 1,900.00                    | 1,900.00            | 1,889.20            | 1,889.20            | 6.61            | 28.15       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,423.22              | 34.75                   | 41.951             |         |
| 2,000.00                    | 2,000.00            | 1,989.20            | 1,989.20            | 6.96            | 29.65       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,421.37              | 36.61                   | 39.826 CC          |         |
| 2,100.00                    | 2,099.99            | 2,089.19            | 2,089.19            | 7.32            | 31.14       | 177.80                | -1,408.43                         | 376.84     | 1,458.85             | 1,420.38              | 38.46                   | 37.928 ES          |         |
| 2,200.00                    | 2,199.96            | 2,189.16            | 2,189.16            | 7.68            | 32.64       | 177.80                | -1,408.43                         | 376.84     | 1,461.46             | 1,421.15              | 40.32                   | 36.249             |         |
| 2,300.00                    | 2,299.86            | 2,289.06            | 2,289.06            | 8.04            | 34.14       | 177.81                | -1,408.43                         | 376.84     | 1,465.82             | 1,423.65              | 42.17                   | 34.759             |         |
| 2,400.00                    | 2,399.68            | 2,388.88            | 2,388.88            | 8.39            | 35.63       | 177.82                | -1,408.43                         | 376.84     | 1,471.92             | 1,427.90              | 44.02                   | 33.435             |         |
| 2,500.00                    | 2,499.37            | 2,488.57            | 2,488.57            | 8.75            | 37.12       | 177.82                | -1,408.43                         | 376.84     | 1,479.76             | 1,433.89              | 45.87                   | 32.258             |         |
| 2,600.00                    | 2,598.90            | 2,588.10            | 2,588.10            | 9.11            | 38.61       | 177.84                | -1,408.43                         | 376.84     | 1,489.34             | 1,441.62              | 47.72                   | 31.210             |         |
| 2,700.00                    | 2,698.26            | 2,687.46            | 2,687.46            | 9.46            | 40.10       | 177.85                | -1,408.43                         | 376.84     | 1,500.65             | 1,451.09              | 49.57                   | 30.276             |         |
| 2,800.00                    | 2,797.40            | 2,786.60            | 2,786.60            | 9.82            | 41.59       | 177.86                | -1,408.43                         | 376.84     | 1,513.70             | 1,462.29              | 51.41                   | 29.446             |         |
| 2,900.00                    | 2,896.30            | 2,885.50            | 2,885.50            | 10.18           | 43.07       | 177.88                | -1,408.43                         | 376.84     | 1,528.47             | 1,475.22              | 53.24                   | 28.707             |         |
| 3,000.00                    | 2,994.93            | 2,984.13            | 2,984.13            | 10.54           | 44.54       | 177.89                | -1,408.43                         | 376.84     | 1,544.96             | 1,489.88              | 55.08                   | 28.051             |         |
| 3,100.00                    | 3,093.26            | 3,082.46            | 3,082.46            | 10.90           | 46.02       | 177.91                | -1,408.43                         | 376.84     | 1,563.17             | 1,506.26              | 56.91                   | 27.469             |         |
| 3,195.07                    | 3,186.42            | 3,175.62            | 3,175.62            | 11.24           | 47.41       | 177.93                | -1,408.43                         | 376.84     | 1,582.07             | 1,523.43              | 58.64                   | 26.979             |         |
| 3,200.00                    | 3,191.25            | 3,180.45            | 3,180.45            | 11.26           | 47.48       | 177.93                | -1,408.43                         | 376.84     | 1,583.09             | 1,524.36              | 58.73                   | 26.955             |         |
| 3,300.00                    | 3,289.08            | 3,278.28            | 3,278.28            | 11.62           | 48.95       | 177.96                | -1,408.43                         | 376.84     | 1,603.79             | 1,543.23              | 60.55                   | 26.486             |         |
| 3,400.00                    | 3,386.91            | 3,376.11            | 3,376.11            | 11.98           | 50.41       | 177.98                | -1,408.43                         | 376.84     | 1,624.48             | 1,562.11              | 62.38                   | 26.043             |         |
| 3,500.00                    | 3,484.74            | 3,473.94            | 3,473.94            | 12.35           | 51.88       | 178.01                | -1,408.43                         | 376.84     | 1,645.18             | 1,580.98              | 64.20                   | 25.626             |         |
| 3,600.00                    | 3,582.58            | 3,571.78            | 3,571.78            | 12.72           | 53.35       | 178.03                | -1,408.43                         | 376.84     | 1,665.87             | 1,599.85              | 66.03                   | 25.231             |         |
| 3,700.00                    | 3,680.41            | 3,669.61            | 3,669.61            | 13.09           | 54.81       | 178.06                | -1,408.43                         | 376.84     | 1,686.57             | 1,618.71              | 67.85                   | 24.857             |         |
| 3,800.00                    | 3,778.24            | 3,767.44            | 3,767.44            | 13.46           | 56.28       | 178.08                | -1,408.43                         | 376.84     | 1,707.26             | 1,637.58              | 69.68                   | 24.502             |         |
| 3,900.00                    | 3,876.08            | 3,865.28            | 3,865.28            | 13.83           | 57.74       | 178.10                | -1,408.43                         | 376.84     | 1,727.96             | 1,656.45              | 71.51                   | 24.164             |         |
| 4,000.00                    | 3,973.91            | 3,963.11            | 3,963.11            | 14.21           | 59.21       | 178.13                | -1,408.43                         | 376.84     | 1,748.65             | 1,675.32              | 73.34                   | 23.844             |         |
| 4,100.00                    | 4,071.74            | 4,060.94            | 4,060.94            | 14.58           | 60.67       | 178.15                | -1,408.43                         | 376.84     | 1,769.35             | 1,694.18              | 75.17                   | 23.539             |         |
| 4,200.00                    | 4,169.57            | 4,158.77            | 4,158.77            | 14.96           | 62.14       | 178.17                | -1,408.43                         | 376.84     | 1,790.05             | 1,713.05              | 77.00                   | 23.248             |         |
| 4,300.00                    | 4,267.41            | 4,256.61            | 4,256.61            | 15.33           | 63.60       | 178.19                | -1,408.43                         | 376.84     | 1,810.74             | 1,731.91              | 78.83                   | 22.970             |         |
| 4,400.00                    | 4,365.24            | 4,354.44            | 4,354.44            | 15.71           | 65.07       | 178.21                | -1,408.43                         | 376.84     | 1,831.44             | 1,750.78              | 80.66                   | 22.705             |         |
| 4,500.00                    | 4,463.07            | 4,452.27            | 4,452.27            | 16.09           | 66.53       | 178.23                | -1,408.43                         | 376.84     | 1,852.14             | 1,769.64              | 82.50                   | 22.451             |         |
| 4,600.00                    | 4,560.90            | 4,550.10            | 4,550.10            | 16.47           | 68.00       | 178.25                | -1,408.43                         | 376.84     | 1,872.84             | 1,788.51              | 84.33                   | 22.208             |         |
| 4,700.00                    | 4,658.74            | 4,647.94            | 4,647.94            | 16.85           | 69.46       | 178.27                | -1,408.43                         | 376.84     | 1,893.53             | 1,807.37              | 86.17                   | 21.976             |         |
| 4,800.00                    | 4,756.57            | 4,745.77            | 4,745.77            | 17.23           | 70.93       | 178.29                | -1,408.43                         | 376.84     | 1,914.23             | 1,826.23              | 88.00                   | 21.753             |         |
| 4,900.00                    | 4,854.40            | 4,843.60            | 4,843.60            | 17.61           | 72.39       | 178.31                | -1,408.43                         | 376.84     | 1,934.93             | 1,845.09              | 89.84                   | 21.539             |         |
| 5,000.00                    | 4,952.23            | 4,941.43            | 4,941.43            | 17.99           | 73.86       | 178.32                | -1,408.43                         | 376.84     | 1,955.63             | 1,863.96              | 91.67                   | 21.333             |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                    | 5,050.07            | 5,039.27            | 5,039.27            | 18.37           | 75.32       | 178.34                | -1,408.43                         | 376.84     | 1,976.33             | 1,882.82              | 93.51                   | 21.135            |                    |         |
| 5,200.00                    | 5,147.90            | 5,137.10            | 5,137.10            | 18.75           | 76.79       | 178.36                | -1,408.43                         | 376.84     | 1,997.03             | 1,901.68              | 95.34                   | 20.945            |                    |         |
| 5,300.00                    | 5,245.73            | 5,234.93            | 5,234.93            | 19.14           | 78.25       | 178.38                | -1,408.43                         | 376.84     | 2,017.72             | 1,920.54              | 97.18                   | 20.762            |                    |         |
| 5,400.00                    | 5,343.56            | 5,332.76            | 5,332.76            | 19.52           | 79.72       | 178.39                | -1,408.43                         | 376.84     | 2,038.42             | 1,939.40              | 99.02                   | 20.586            |                    |         |
| 5,500.00                    | 5,441.40            | 5,430.60            | 5,430.60            | 19.90           | 81.18       | 178.41                | -1,408.43                         | 376.84     | 2,059.12             | 1,958.27              | 100.86                  | 20.416            |                    |         |
| 5,600.00                    | 5,539.23            | 5,528.43            | 5,528.43            | 20.29           | 82.65       | 178.42                | -1,408.43                         | 376.84     | 2,079.82             | 1,977.13              | 102.70                  | 20.252            |                    |         |
| 5,700.00                    | 5,637.06            | 5,626.26            | 5,626.26            | 20.67           | 84.11       | 178.44                | -1,408.43                         | 376.84     | 2,100.52             | 1,995.99              | 104.53                  | 20.094            |                    |         |
| 5,800.00                    | 5,734.90            | 5,724.10            | 5,724.10            | 21.05           | 85.58       | 178.46                | -1,408.43                         | 376.84     | 2,121.22             | 2,014.85              | 106.37                  | 19.941            |                    |         |
| 5,900.00                    | 5,832.73            | 5,821.93            | 5,821.93            | 21.44           | 87.04       | 178.47                | -1,408.43                         | 376.84     | 2,141.92             | 2,033.71              | 108.21                  | 19.794            |                    |         |
| 6,000.00                    | 5,930.56            | 5,919.76            | 5,919.76            | 21.83           | 88.51       | 178.48                | -1,408.43                         | 376.84     | 2,162.62             | 2,052.57              | 110.05                  | 19.651            |                    |         |
| 6,100.00                    | 6,028.39            | 6,017.59            | 6,017.59            | 22.21           | 89.97       | 178.50                | -1,408.43                         | 376.84     | 2,183.32             | 2,071.43              | 111.89                  | 19.513            |                    |         |
| 6,200.00                    | 6,126.23            | 6,115.43            | 6,115.43            | 22.60           | 91.44       | 178.51                | -1,408.43                         | 376.84     | 2,204.02             | 2,090.29              | 113.73                  | 19.379            |                    |         |
| 6,300.00                    | 6,224.06            | 6,213.26            | 6,213.26            | 22.98           | 92.90       | 178.53                | -1,408.43                         | 376.84     | 2,224.72             | 2,109.15              | 115.57                  | 19.250            |                    |         |
| 6,400.00                    | 6,321.89            | 6,311.09            | 6,311.09            | 23.37           | 94.37       | 178.54                | -1,408.43                         | 376.84     | 2,245.42             | 2,128.01              | 117.41                  | 19.124            |                    |         |
| 6,500.00                    | 6,419.72            | 6,408.92            | 6,408.92            | 23.76           | 95.83       | 178.55                | -1,408.43                         | 376.84     | 2,266.12             | 2,146.87              | 119.25                  | 19.003            |                    |         |
| 6,600.00                    | 6,517.56            | 6,506.76            | 6,506.76            | 24.14           | 97.30       | 178.57                | -1,408.43                         | 376.84     | 2,286.82             | 2,165.73              | 121.09                  | 18.885            |                    |         |
| 6,700.00                    | 6,615.39            | 6,604.59            | 6,604.59            | 24.53           | 98.76       | 178.58                | -1,408.43                         | 376.84     | 2,307.52             | 2,184.59              | 122.93                  | 18.770            |                    |         |
| 6,800.00                    | 6,713.22            | 6,702.42            | 6,702.42            | 24.92           | 100.23      | 178.59                | -1,408.43                         | 376.84     | 2,328.22             | 2,203.45              | 124.78                  | 18.659            |                    |         |
| 6,900.00                    | 6,811.05            | 6,800.25            | 6,800.25            | 25.30           | 101.70      | 178.60                | -1,408.43                         | 376.84     | 2,348.92             | 2,222.31              | 126.62                  | 18.551            |                    |         |
| 7,000.00                    | 6,908.89            | 6,898.09            | 6,898.09            | 25.69           | 103.16      | 178.62                | -1,408.43                         | 376.84     | 2,369.63             | 2,241.17              | 128.46                  | 18.446            |                    |         |
| 7,100.00                    | 7,006.72            | 6,995.92            | 6,995.92            | 26.08           | 104.63      | 178.63                | -1,408.43                         | 376.84     | 2,390.33             | 2,260.03              | 130.30                  | 18.345            |                    |         |
| 7,200.00                    | 7,104.55            | 7,093.75            | 7,093.75            | 26.47           | 106.09      | 178.64                | -1,408.43                         | 376.84     | 2,411.03             | 2,278.88              | 132.14                  | 18.246            |                    |         |
| 7,216.87                    | 7,121.05            | 7,110.25            | 7,110.25            | 26.53           | 106.34      | 178.64                | -1,408.43                         | 376.84     | 2,414.52             | 2,282.07              | 132.45                  | 18.229            |                    |         |
| 7,300.00                    | 7,202.57            | 7,191.77            | 7,191.77            | 26.85           | 107.56      | 178.66                | -1,408.43                         | 376.84     | 2,430.84             | 2,296.86              | 133.99                  | 18.142            |                    |         |
| 7,400.00                    | 7,301.06            | 7,290.26            | 7,290.26            | 27.23           | 109.03      | 178.67                | -1,408.43                         | 376.84     | 2,448.12             | 2,312.29              | 135.84                  | 18.023            |                    |         |
| 7,500.00                    | 7,399.97            | 7,389.17            | 7,389.17            | 27.61           | 110.51      | 178.69                | -1,408.43                         | 376.84     | 2,462.82             | 2,325.13              | 137.69                  | 17.887            |                    |         |
| 7,600.00                    | 7,499.23            | 7,488.43            | 7,488.43            | 27.98           | 112.00      | 178.70                | -1,408.43                         | 376.84     | 2,474.92             | 2,335.38              | 139.54                  | 17.736            |                    |         |
| 7,700.00                    | 7,598.77            | 7,587.97            | 7,587.97            | 28.34           | 113.49      | 178.71                | -1,408.43                         | 376.84     | 2,484.42             | 2,343.03              | 141.39                  | 17.571            |                    |         |
| 7,800.00                    | 7,698.53            | 7,687.73            | 7,687.73            | 28.70           | 114.99      | 178.71                | -1,408.43                         | 376.84     | 2,491.32             | 2,348.07              | 143.24                  | 17.392            |                    |         |
| 7,900.00                    | 7,798.44            | 7,787.64            | 7,787.64            | 29.05           | 116.48      | 178.71                | -1,408.43                         | 376.84     | 2,495.60             | 2,350.51              | 145.09                  | 17.200            |                    |         |
| 8,000.00                    | 7,898.42            | 7,887.62            | 7,887.62            | 29.39           | 117.98      | 178.72                | -1,408.43                         | 376.84     | 2,497.26             | 2,350.33              | 146.94                  | 16.996            |                    |         |
| 8,013.58                    | 7,912.00            | 7,901.20            | 7,901.20            | 29.43           | 118.18      | 165.94                | -1,408.43                         | 376.84     | 2,497.29             | 2,350.10              | 147.19                  | 16.967            |                    |         |
| 8,100.00                    | 7,998.42            | 7,987.62            | 7,987.62            | 29.73           | 119.48      | 165.94                | -1,408.43                         | 376.84     | 2,497.29             | 2,348.51              | 148.78                  | 16.785            |                    |         |
| 8,200.00                    | 8,098.42            | 8,087.62            | 8,087.62            | 30.07           | 120.98      | 165.94                | -1,408.43                         | 376.84     | 2,497.29             | 2,346.67              | 150.62                  | 16.580            |                    |         |
| 8,300.00                    | 8,198.42            | 8,187.62            | 8,187.62            | 30.41           | 122.47      | 165.94                | -1,408.43                         | 376.84     | 2,497.29             | 2,344.83              | 152.46                  | 16.380            |                    |         |
| 8,363.62                    | 8,262.04            | 8,251.24            | 8,251.24            | 30.62           | 123.43      | 165.94                | -1,408.43                         | 376.84     | 2,497.29             | 2,343.65              | 153.63                  | 16.255            |                    |         |
| 8,400.00                    | 8,298.40            | 8,287.60            | 8,287.60            | 30.75           | 123.97      | 76.33                 | -1,408.43                         | 376.84     | 2,497.01             | 2,342.72              | 154.30                  | 16.183            |                    |         |
| 8,450.00                    | 8,348.10            | 8,337.30            | 8,337.30            | 30.91           | 124.71      | 76.57                 | -1,408.43                         | 376.84     | 2,495.75             | 2,340.55              | 155.20                  | 16.081            |                    |         |
| 8,500.00                    | 8,397.14            | 8,386.34            | 8,386.34            | 31.07           | 125.45      | 77.00                 | -1,408.43                         | 376.84     | 2,493.50             | 2,337.41              | 156.09                  | 15.974            |                    |         |
| 8,550.00                    | 8,445.15            | 8,434.35            | 8,434.35            | 31.23           | 126.17      | 77.61                 | -1,408.43                         | 376.84     | 2,490.33             | 2,333.36              | 156.97                  | 15.865            |                    |         |
| 8,600.00                    | 8,491.77            | 8,480.97            | 8,480.97            | 31.38           | 126.87      | 78.39                 | -1,408.43                         | 376.84     | 2,486.32             | 2,328.50              | 157.82                  | 15.754            |                    |         |
| 8,650.00                    | 8,536.65            | 8,525.85            | 8,525.85            | 31.52           | 127.54      | 79.30                 | -1,408.43                         | 376.84     | 2,481.59             | 2,322.95              | 158.64                  | 15.643            |                    |         |
| 8,700.00                    | 8,579.43            | 8,568.63            | 8,568.63            | 31.66           | 128.18      | 80.33                 | -1,408.43                         | 376.84     | 2,476.28             | 2,316.85              | 159.43                  | 15.532            |                    |         |
| 8,750.00                    | 8,619.80            | 8,609.00            | 8,609.00            | 31.80           | 128.78      | 81.45                 | -1,408.43                         | 376.84     | 2,470.54             | 2,310.35              | 160.19                  | 15.423            |                    |         |
| 8,800.00                    | 8,657.44            | 8,646.64            | 8,646.64            | 31.93           | 129.35      | 82.62                 | -1,408.43                         | 376.84     | 2,464.54             | 2,303.63              | 160.91                  | 15.317            |                    |         |
| 8,850.00                    | 8,692.08            | 8,681.28            | 8,681.28            | 32.06           | 129.87      | 83.81                 | -1,408.43                         | 376.84     | 2,458.45             | 2,296.86              | 161.59                  | 15.214            |                    |         |
| 8,900.00                    | 8,723.44            | 8,712.64            | 8,712.64            | 32.19           | 130.34      | 84.98                 | -1,408.43                         | 376.84     | 2,452.44             | 2,290.22              | 162.23                  | 15.117            |                    |         |
| 8,950.00                    | 8,751.29            | 8,740.49            | 8,740.49            | 32.34           | 130.75      | 86.10                 | -1,408.43                         | 376.84     | 2,446.71             | 2,283.88              | 162.83                  | 15.027            |                    |         |
| 9,000.00                    | 8,775.42            | 8,764.62            | 8,764.62            | 32.50           | 131.11      | 87.13                 | -1,408.43                         | 376.84     | 2,441.41             | 2,278.03              | 163.39                  | 14.942            |                    |         |
| 9,050.00                    | 8,795.64            | 8,784.84            | 8,784.84            | 32.67           | 131.42      | 88.04                 | -1,408.43                         | 376.84     | 2,436.71             | 2,272.80              | 163.91                  | 14.866            |                    |         |
| 9,100.00                    | 8,811.80            | 8,801.00            | 8,801.00            | 32.87           | 131.66      | 88.80                 | -1,408.43                         | 376.84     | 2,432.74             | 2,268.35              | 164.39                  | 14.799            |                    |         |
| 9,150.00                    | 8,823.77            | 8,812.97            | 8,812.97            | 33.10           | 131.84      | 89.38                 | -1,408.43                         | 376.84     | 2,429.61             | 2,264.79              | 164.82                  | 14.741            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,200.00                    | 8,831.47            | 8,820.67            | 8,820.67            | 33.34           | 131.95      | 89.78                 | -1,408.43                         | 376.84     | 2,427.42             | 2,262.21              | 165.21                  | 14.693            |                    |         |
| 9,250.00                    | 8,834.84            | 8,824.04            | 8,824.04            | 33.60           | 132.00      | 89.98                 | -1,408.43                         | 376.84     | 2,426.23             | 2,260.68              | 165.55                  | 14.656            |                    |         |
| 9,263.62                    | 8,835.00            | 8,824.20            | 8,824.20            | 33.67           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,426.08             | 2,260.45              | 165.63                  | 14.647            |                    |         |
| 9,283.05                    | 8,835.00            | 8,824.20            | 8,824.20            | 33.78           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,426.01             | 2,260.26              | 165.75                  | 14.636            |                    |         |
| 9,300.00                    | 8,835.00            | 8,824.20            | 8,824.20            | 33.88           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,426.07             | 2,260.21              | 165.85                  | 14.628            |                    |         |
| 9,400.00                    | 8,835.00            | 8,824.20            | 8,824.20            | 34.53           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,428.82             | 2,262.29              | 166.53                  | 14.585            |                    |         |
| 9,500.00                    | 8,835.00            | 8,824.20            | 8,824.20            | 35.30           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,435.69             | 2,268.39              | 167.30                  | 14.559            |                    |         |
| 9,600.00                    | 8,835.00            | 8,824.20            | 8,824.20            | 36.17           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,446.62             | 2,278.48              | 168.14                  | 14.551 SF         |                    |         |
| 9,700.00                    | 8,835.00            | 8,824.20            | 8,824.20            | 37.13           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,461.58             | 2,292.54              | 169.04                  | 14.562            |                    |         |
| 9,800.00                    | 8,835.00            | 8,824.20            | 8,824.20            | 38.18           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,480.47             | 2,310.49              | 169.98                  | 14.593            |                    |         |
| 9,900.00                    | 8,835.00            | 8,824.20            | 8,824.20            | 39.31           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,503.22             | 2,332.28              | 170.95                  | 14.643            |                    |         |
| 10,000.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 40.51           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,529.73             | 2,357.80              | 171.93                  | 14.714            |                    |         |
| 10,100.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 41.78           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,559.87             | 2,386.95              | 172.91                  | 14.804            |                    |         |
| 10,200.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 43.10           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,593.51             | 2,419.62              | 173.89                  | 14.914            |                    |         |
| 10,300.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 44.49           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,630.53             | 2,455.68              | 174.85                  | 15.044            |                    |         |
| 10,400.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 45.92           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,670.78             | 2,494.99              | 175.79                  | 15.193            |                    |         |
| 10,500.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 47.39           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,714.12             | 2,537.42              | 176.70                  | 15.360            |                    |         |
| 10,600.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 48.91           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,760.41             | 2,582.83              | 177.58                  | 15.545            |                    |         |
| 10,700.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 50.47           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,809.49             | 2,631.07              | 178.42                  | 15.746            |                    |         |
| 10,800.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 52.06           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,861.23             | 2,682.01              | 179.22                  | 15.965            |                    |         |
| 10,900.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 53.68           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,915.48             | 2,735.49              | 179.99                  | 16.198            |                    |         |
| 11,000.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 55.32           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,972.11             | 2,791.40              | 180.71                  | 16.447            |                    |         |
| 11,100.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 57.00           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,030.97             | 2,849.58              | 181.40                  | 16.709            |                    |         |
| 11,200.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 58.70           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,091.96             | 2,909.91              | 182.04                  | 16.985            |                    |         |
| 11,300.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 60.41           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,154.93             | 2,972.28              | 182.65                  | 17.273            |                    |         |
| 11,400.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 62.15           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,219.78             | 3,036.56              | 183.22                  | 17.573            |                    |         |
| 11,500.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 63.91           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,286.39             | 3,102.63              | 183.76                  | 17.884            |                    |         |
| 11,600.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 65.69           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,354.66             | 3,170.40              | 184.26                  | 18.206            |                    |         |
| 11,700.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 67.47           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,424.49             | 3,239.76              | 184.74                  | 18.537            |                    |         |
| 11,800.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 69.28           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,495.79             | 3,310.61              | 185.18                  | 18.878            |                    |         |
| 11,900.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 71.09           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,568.46             | 3,382.87              | 185.60                  | 19.227            |                    |         |
| 12,000.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 72.92           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,642.43             | 3,456.45              | 185.99                  | 19.585            |                    |         |
| 12,100.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 74.76           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,717.62             | 3,531.27              | 186.35                  | 19.950            |                    |         |
| 12,200.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 76.61           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,793.95             | 3,607.26              | 186.69                  | 20.322            |                    |         |
| 12,300.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 78.47           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,871.37             | 3,684.35              | 187.01                  | 20.701            |                    |         |
| 12,400.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 80.34           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,949.79             | 3,762.48              | 187.31                  | 21.087            |                    |         |
| 12,500.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 82.22           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,029.18             | 3,841.58              | 187.60                  | 21.478            |                    |         |
| 12,600.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 84.11           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,109.46             | 3,921.60              | 187.86                  | 21.875            |                    |         |
| 12,700.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 86.00           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,190.59             | 4,002.48              | 188.11                  | 22.277            |                    |         |
| 12,800.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 87.90           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,272.52             | 4,084.17              | 188.35                  | 22.684            |                    |         |
| 12,900.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 89.81           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,355.21             | 4,166.64              | 188.57                  | 23.096            |                    |         |
| 13,000.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 91.72           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,438.60             | 4,249.83              | 188.77                  | 23.513            |                    |         |
| 13,100.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 93.64           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,522.68             | 4,333.71              | 188.97                  | 23.933            |                    |         |
| 13,200.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 95.56           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,607.38             | 4,418.23              | 189.16                  | 24.358            |                    |         |
| 13,300.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 97.49           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,692.69             | 4,503.36              | 189.33                  | 24.786            |                    |         |
| 13,400.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 99.42           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,778.57             | 4,589.08              | 189.50                  | 25.217            |                    |         |
| 13,500.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 101.36          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,864.99             | 4,675.34              | 189.65                  | 25.652            |                    |         |
| 13,600.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 103.30          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,951.92             | 4,762.12              | 189.80                  | 26.090            |                    |         |
| 13,700.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 105.25          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 5,039.34             | 4,849.39              | 189.94                  | 26.531            |                    |         |
| 13,800.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 107.20          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 5,127.21             | 4,937.13              | 190.08                  | 26.974            |                    |         |
| 13,900.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 109.15          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 5,215.53             | 5,025.32              | 190.21                  | 27.420            |                    |         |
| 14,000.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 111.10          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 5,304.25             | 5,113.92              | 190.33                  | 27.869            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |        | Sec 14-T21S-R27E - Esperanza 14 State #001 (Active) - Wellbore #1 - Wellbore #1 |         | Offset Site Error: |  | 0.00 ft |
|-----------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|--------|---------------------------------------------------------------------------------|---------|--------------------|--|---------|
| Survey Program: 10-INC-ONLY |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |        |                                                                                 |         | Offset Well Error: |  | 0.50 ft |
| Reference                   |                | Offset         |                | Semi Major Axis |        |                   | Distance               |                 |                  |                    |                   |        |                                                                                 | Warning |                    |  |         |
| Measured Depth              | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor |        |                                                                                 |         |                    |  |         |
| Depth (ft)                  | Depth (ft)     | Depth (ft)     | Depth (ft)     | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft)      | (ft)             | (ft)               | (ft)              |        |                                                                                 |         |                    |  |         |
| 14,100.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 113.06          | 132.01 | 90.00             | -1,408.43              | 376.84          | 5,393.37         | 5,202.93           | 190.45            | 28.320 |                                                                                 |         |                    |  |         |
| 14,200.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 115.03          | 132.01 | 90.00             | -1,408.43              | 376.84          | 5,482.87         | 5,292.31           | 190.56            | 28.773 |                                                                                 |         |                    |  |         |
| 14,300.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 116.99          | 132.01 | 90.00             | -1,408.43              | 376.84          | 5,572.73         | 5,382.06           | 190.67            | 29.228 |                                                                                 |         |                    |  |         |
| 14,400.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 118.96          | 132.01 | 90.00             | -1,408.43              | 376.84          | 5,662.92         | 5,472.15           | 190.77            | 29.685 |                                                                                 |         |                    |  |         |
| 14,500.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 120.93          | 132.01 | 90.00             | -1,408.43              | 376.84          | 5,753.44         | 5,562.57           | 190.87            | 30.144 |                                                                                 |         |                    |  |         |
| 14,600.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 122.90          | 132.01 | 90.00             | -1,408.43              | 376.84          | 5,844.27         | 5,653.30           | 190.96            | 30.604 |                                                                                 |         |                    |  |         |
| 14,700.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 124.88          | 132.01 | 90.00             | -1,408.43              | 376.84          | 5,935.39         | 5,744.33           | 191.05            | 31.067 |                                                                                 |         |                    |  |         |
| 14,800.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 126.86          | 132.01 | 90.00             | -1,408.43              | 376.84          | 6,026.79         | 5,835.65           | 191.14            | 31.531 |                                                                                 |         |                    |  |         |
| 14,900.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 128.84          | 132.01 | 90.00             | -1,408.43              | 376.84          | 6,118.46         | 5,927.24           | 191.23            | 31.996 |                                                                                 |         |                    |  |         |
| 15,000.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 130.82          | 132.01 | 90.00             | -1,408.43              | 376.84          | 6,210.39         | 6,019.09           | 191.31            | 32.463 |                                                                                 |         |                    |  |         |
| 15,100.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 132.80          | 132.01 | 90.00             | -1,408.43              | 376.84          | 6,302.57         | 6,111.18           | 191.39            | 32.931 |                                                                                 |         |                    |  |         |
| 15,200.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 134.79          | 132.01 | 90.00             | -1,408.43              | 376.84          | 6,394.98         | 6,203.51           | 191.47            | 33.400 |                                                                                 |         |                    |  |         |
| 15,300.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 136.78          | 132.01 | 90.00             | -1,408.43              | 376.84          | 6,487.62         | 6,296.08           | 191.54            | 33.871 |                                                                                 |         |                    |  |         |
| 15,400.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 138.76          | 132.01 | 90.00             | -1,408.43              | 376.84          | 6,580.47         | 6,388.85           | 191.61            | 34.342 |                                                                                 |         |                    |  |         |
| 15,500.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 140.76          | 132.01 | 90.00             | -1,408.43              | 376.84          | 6,673.53         | 6,481.84           | 191.69            | 34.815 |                                                                                 |         |                    |  |         |
| 15,600.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 142.75          | 132.01 | 90.00             | -1,408.43              | 376.84          | 6,766.78         | 6,575.03           | 191.76            | 35.289 |                                                                                 |         |                    |  |         |
| 15,700.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 144.74          | 132.01 | 90.00             | -1,408.43              | 376.84          | 6,860.23         | 6,668.40           | 191.82            | 35.763 |                                                                                 |         |                    |  |         |
| 15,800.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 146.74          | 132.01 | 90.00             | -1,408.43              | 376.84          | 6,953.86         | 6,761.97           | 191.89            | 36.239 |                                                                                 |         |                    |  |         |
| 15,900.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 148.73          | 132.01 | 90.00             | -1,408.43              | 376.84          | 7,047.66         | 6,855.70           | 191.96            | 36.715 |                                                                                 |         |                    |  |         |
| 16,000.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 150.73          | 132.01 | 90.00             | -1,408.43              | 376.84          | 7,141.63         | 6,949.61           | 192.02            | 37.192 |                                                                                 |         |                    |  |         |
| 16,100.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 152.73          | 132.01 | 90.00             | -1,408.43              | 376.84          | 7,235.76         | 7,043.68           | 192.08            | 37.670 |                                                                                 |         |                    |  |         |
| 16,200.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 154.73          | 132.01 | 90.00             | -1,408.43              | 376.84          | 7,330.05         | 7,137.91           | 192.14            | 38.149 |                                                                                 |         |                    |  |         |
| 16,300.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 156.73          | 132.01 | 90.00             | -1,408.43              | 376.84          | 7,424.49         | 7,232.29           | 192.20            | 38.628 |                                                                                 |         |                    |  |         |
| 16,400.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 158.74          | 132.01 | 90.00             | -1,408.43              | 376.84          | 7,519.07         | 7,326.81           | 192.26            | 39.108 |                                                                                 |         |                    |  |         |
| 16,500.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 160.74          | 132.01 | 90.00             | -1,408.43              | 376.84          | 7,613.79         | 7,421.47           | 192.32            | 39.588 |                                                                                 |         |                    |  |         |
| 16,600.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 162.74          | 132.01 | 90.00             | -1,408.43              | 376.84          | 7,708.65         | 7,516.26           | 192.38            | 40.069 |                                                                                 |         |                    |  |         |
| 16,700.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 164.75          | 132.01 | 90.00             | -1,408.43              | 376.84          | 7,803.63         | 7,611.19           | 192.44            | 40.551 |                                                                                 |         |                    |  |         |
| 16,800.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 166.76          | 132.01 | 90.00             | -1,408.43              | 376.84          | 7,898.73         | 7,706.24           | 192.50            | 41.033 |                                                                                 |         |                    |  |         |
| 16,900.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 168.77          | 132.01 | 90.00             | -1,408.43              | 376.84          | 7,993.96         | 7,801.41           | 192.55            | 41.516 |                                                                                 |         |                    |  |         |
| 17,000.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 170.77          | 132.01 | 90.00             | -1,408.43              | 376.84          | 8,089.30         | 7,896.69           | 192.61            | 41.998 |                                                                                 |         |                    |  |         |
| 17,100.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 172.78          | 132.01 | 90.00             | -1,408.43              | 376.84          | 8,184.75         | 7,992.09           | 192.67            | 42.482 |                                                                                 |         |                    |  |         |
| 17,200.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 174.79          | 132.01 | 90.00             | -1,408.43              | 376.84          | 8,280.31         | 8,087.59           | 192.72            | 42.965 |                                                                                 |         |                    |  |         |
| 17,300.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 176.81          | 132.01 | 90.00             | -1,408.43              | 376.84          | 8,375.98         | 8,183.20           | 192.78            | 43.449 |                                                                                 |         |                    |  |         |
| 17,400.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 178.82          | 132.01 | 90.00             | -1,408.43              | 376.84          | 8,471.74         | 8,278.91           | 192.83            | 43.934 |                                                                                 |         |                    |  |         |
| 17,500.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 180.83          | 132.01 | 90.00             | -1,408.43              | 376.84          | 8,567.60         | 8,374.71           | 192.88            | 44.418 |                                                                                 |         |                    |  |         |
| 17,600.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 182.84          | 132.01 | 90.00             | -1,408.43              | 376.84          | 8,663.55         | 8,470.61           | 192.94            | 44.903 |                                                                                 |         |                    |  |         |
| 17,700.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 184.86          | 132.01 | 90.00             | -1,408.43              | 376.84          | 8,759.60         | 8,566.60           | 192.99            | 45.388 |                                                                                 |         |                    |  |         |
| 17,800.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 186.87          | 132.01 | 90.00             | -1,408.43              | 376.84          | 8,855.73         | 8,662.68           | 193.05            | 45.873 |                                                                                 |         |                    |  |         |
| 17,900.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 188.89          | 132.01 | 90.00             | -1,408.43              | 376.84          | 8,951.94         | 8,758.84           | 193.10            | 46.359 |                                                                                 |         |                    |  |         |
| 18,000.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 190.91          | 132.01 | 90.00             | -1,408.43              | 376.84          | 9,048.24         | 8,855.09           | 193.15            | 46.845 |                                                                                 |         |                    |  |         |
| 18,100.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 192.92          | 132.01 | 90.00             | -1,408.43              | 376.84          | 9,144.62         | 8,951.41           | 193.21            | 47.330 |                                                                                 |         |                    |  |         |
| 18,200.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 194.94          | 132.01 | 90.00             | -1,408.43              | 376.84          | 9,241.07         | 9,047.81           | 193.26            | 47.816 |                                                                                 |         |                    |  |         |
| 18,300.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 196.96          | 132.01 | 90.00             | -1,408.43              | 376.84          | 9,337.60         | 9,144.29           | 193.32            | 48.302 |                                                                                 |         |                    |  |         |
| 18,400.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 198.98          | 132.01 | 90.00             | -1,408.43              | 376.84          | 9,434.21         | 9,240.84           | 193.37            | 48.789 |                                                                                 |         |                    |  |         |
| 18,500.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 201.00          | 132.01 | 90.00             | -1,408.43              | 376.84          | 9,530.88         | 9,337.46           | 193.42            | 49.275 |                                                                                 |         |                    |  |         |
| 18,600.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 203.02          | 132.01 | 90.00             | -1,408.43              | 376.84          | 9,627.62         | 9,434.14           | 193.48            | 49.761 |                                                                                 |         |                    |  |         |
| 18,700.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 205.04          | 132.01 | 90.00             | -1,408.43              | 376.84          | 9,724.42         | 9,530.89           | 193.53            | 50.248 |                                                                                 |         |                    |  |         |
| 18,800.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 207.06          | 132.01 | 90.00             | -1,408.43              | 376.84          | 9,821.29         | 9,627.71           | 193.58            | 50.734 |                                                                                 |         |                    |  |         |
| 18,900.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 209.08          | 132.01 | 90.00             | -1,408.43              | 376.84          | 9,918.23         | 9,724.59           | 193.64            | 51.220 |                                                                                 |         |                    |  |         |



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Esperanza 14 State #002 (Active) - Wellbore #1 - Wellbore #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Site Error:</b> | 0.00 ft  |
|------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|----------|
| Survey Program: 10-INC-ONLY                                                                          |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Well Error:</b> | 10.00 ft |
| Reference                                                                                            |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                           | Warning  |
| Measured Depth (ft)                                                                                  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor         |          |
| 0.00                                                                                                 | 0.00                | 0.00                | 0.00                | 0.50            | 10.00       | 15.02                 | 1,387.93                          | 372.48     | 1,437.11             |                       |                         |                           |          |
| 100.00                                                                                               | 100.00              | 86.20               | 86.20               | 0.52            | 10.12       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,426.41              | 10.64                   | 135.112                   |          |
| 200.00                                                                                               | 200.00              | 186.20              | 186.20              | 0.70            | 10.62       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,425.72              | 11.32                   | 126.963                   |          |
| 300.00                                                                                               | 300.00              | 286.20              | 286.20              | 0.99            | 11.46       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,424.60              | 12.44                   | 115.491                   |          |
| 400.00                                                                                               | 400.00              | 386.20              | 386.20              | 1.31            | 12.57       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,423.16              | 13.88                   | 103.560                   |          |
| 500.00                                                                                               | 500.00              | 486.20              | 486.20              | 1.65            | 13.89       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,421.51              | 15.53                   | 92.518                    |          |
| 600.00                                                                                               | 600.00              | 586.20              | 586.20              | 1.99            | 15.36       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,419.69              | 17.35                   | 82.826                    |          |
| 700.00                                                                                               | 700.00              | 686.20              | 686.20              | 2.34            | 16.95       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,417.76              | 19.29                   | 74.513                    |          |
| 800.00                                                                                               | 800.00              | 786.20              | 786.20              | 2.69            | 18.62       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,415.73              | 21.31                   | 67.438                    |          |
| 900.00                                                                                               | 900.00              | 886.20              | 886.20              | 3.04            | 20.35       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,413.64              | 23.40                   | 61.418                    |          |
| 1,000.00                                                                                             | 1,000.00            | 986.20              | 986.20              | 3.40            | 22.14       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,411.50              | 25.54                   | 56.274                    |          |
| 1,100.00                                                                                             | 1,100.00            | 1,086.20            | 1,086.20            | 3.75            | 23.96       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,409.33              | 27.71                   | 51.853                    |          |
| 1,200.00                                                                                             | 1,200.00            | 1,186.20            | 1,186.20            | 4.11            | 25.81       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,407.12              | 29.92                   | 48.026                    |          |
| 1,300.00                                                                                             | 1,300.00            | 1,286.20            | 1,286.20            | 4.46            | 27.69       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,404.89              | 32.15                   | 44.692                    |          |
| 1,400.00                                                                                             | 1,400.00            | 1,386.20            | 1,386.20            | 4.82            | 29.59       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,402.63              | 34.41                   | 41.767                    |          |
| 1,500.00                                                                                             | 1,500.00            | 1,486.20            | 1,486.20            | 5.18            | 31.50       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,400.37              | 36.67                   | 39.183                    |          |
| 1,600.00                                                                                             | 1,600.00            | 1,586.20            | 1,586.20            | 5.53            | 33.42       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,398.08              | 38.96                   | 36.888                    |          |
| 1,700.00                                                                                             | 1,700.00            | 1,686.20            | 1,686.20            | 5.89            | 35.36       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,395.79              | 41.25                   | 34.838                    |          |
| 1,800.00                                                                                             | 1,800.00            | 1,786.20            | 1,786.20            | 6.25            | 37.30       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,393.49              | 43.55                   | 32.996                    |          |
| 1,900.00                                                                                             | 1,900.00            | 1,886.20            | 1,886.20            | 6.61            | 39.26       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,391.18              | 45.86                   | 31.334                    |          |
| 2,000.00                                                                                             | 2,000.00            | 1,986.20            | 1,986.20            | 6.96            | 41.22       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,388.86              | 48.18                   | 29.827                    |          |
| 2,100.00                                                                                             | 2,099.99            | 2,086.19            | 2,086.19            | 7.32            | 43.18       | 27.82                 | 1,387.93                          | 372.48     | 1,436.27             | 1,385.77              | 50.50                   | 28.440                    |          |
| 2,200.00                                                                                             | 2,199.96            | 2,186.16            | 2,186.16            | 7.68            | 45.15       | 27.88                 | 1,387.93                          | 372.48     | 1,433.95             | 1,381.12              | 52.83                   | 27.143                    |          |
| 2,300.00                                                                                             | 2,299.86            | 2,286.06            | 2,286.06            | 8.04            | 47.13       | 27.98                 | 1,387.93                          | 372.48     | 1,430.10             | 1,374.94              | 55.16                   | 25.926                    |          |
| 2,400.00                                                                                             | 2,399.68            | 2,385.88            | 2,385.88            | 8.39            | 49.10       | 28.12                 | 1,387.93                          | 372.48     | 1,424.71             | 1,367.22              | 57.49                   | 24.781                    |          |
| 2,500.00                                                                                             | 2,499.37            | 2,485.57            | 2,485.57            | 8.75            | 51.08       | 28.30                 | 1,387.93                          | 372.48     | 1,417.79             | 1,357.96              | 59.83                   | 23.698                    |          |
| 2,600.00                                                                                             | 2,598.90            | 2,585.10            | 2,585.10            | 9.11            | 53.05       | 28.53                 | 1,387.93                          | 372.48     | 1,409.35             | 1,347.19              | 62.16                   | 22.673                    |          |
| 2,700.00                                                                                             | 2,698.26            | 2,684.46            | 2,684.46            | 9.46            | 55.03       | 28.80                 | 1,387.93                          | 372.48     | 1,399.41             | 1,334.91              | 64.49                   | 21.698                    |          |
| 2,800.00                                                                                             | 2,797.40            | 2,783.60            | 2,783.60            | 9.82            | 57.00       | 29.11                 | 1,387.93                          | 372.48     | 1,387.96             | 1,321.14              | 66.82                   | 20.770                    |          |
| 2,900.00                                                                                             | 2,896.30            | 2,882.50            | 2,882.50            | 10.18           | 58.97       | 29.48                 | 1,387.93                          | 372.48     | 1,375.04             | 1,305.88              | 69.15                   | 19.884                    |          |
| 3,000.00                                                                                             | 2,994.93            | 2,981.13            | 2,981.13            | 10.54           | 60.94       | 29.89                 | 1,387.93                          | 372.48     | 1,360.65             | 1,289.17              | 71.48                   | 19.036                    |          |
| 3,100.00                                                                                             | 3,093.26            | 3,079.46            | 3,079.46            | 10.90           | 62.90       | 30.36                 | 1,387.93                          | 372.48     | 1,344.82             | 1,271.02              | 73.80                   | 18.222                    |          |
| 3,195.07                                                                                             | 3,186.42            | 3,172.62            | 3,172.62            | 11.24           | 64.77       | 30.85                 | 1,387.93                          | 372.48     | 1,328.46             | 1,252.45              | 76.00                   | 17.479                    |          |
| 3,200.00                                                                                             | 3,191.25            | 3,177.45            | 3,177.45            | 11.26           | 64.86       | 30.87                 | 1,387.93                          | 372.48     | 1,327.58             | 1,251.46              | 76.12                   | 17.441                    |          |
| 3,300.00                                                                                             | 3,289.08            | 3,275.28            | 3,275.28            | 11.62           | 66.82       | 31.34                 | 1,387.93                          | 372.48     | 1,309.74             | 1,231.31              | 78.43                   | 16.699                    |          |
| 3,400.00                                                                                             | 3,386.91            | 3,373.11            | 3,373.11            | 11.98           | 68.78       | 31.81                 | 1,387.93                          | 372.48     | 1,292.00             | 1,211.24              | 80.75                   | 15.999                    |          |
| 3,500.00                                                                                             | 3,484.74            | 3,470.94            | 3,470.94            | 12.35           | 70.74       | 32.30                 | 1,387.93                          | 372.48     | 1,274.34             | 1,191.27              | 83.08                   | 15.340                    |          |
| 3,600.00                                                                                             | 3,582.58            | 3,568.78            | 3,568.78            | 12.72           | 72.70       | 32.80                 | 1,387.93                          | 372.48     | 1,256.78             | 1,171.38              | 85.40                   | 14.716                    |          |
| 3,700.00                                                                                             | 3,680.41            | 3,666.61            | 3,666.61            | 13.09           | 74.66       | 33.31                 | 1,387.93                          | 372.48     | 1,239.31             | 1,151.58              | 87.73                   | 14.127                    |          |
| 3,800.00                                                                                             | 3,778.24            | 3,764.44            | 3,764.44            | 13.46           | 76.62       | 33.84                 | 1,387.93                          | 372.48     | 1,221.94             | 1,131.89              | 90.06                   | 13.569                    |          |
| 3,900.00                                                                                             | 3,876.08            | 3,862.28            | 3,862.28            | 13.83           | 78.58       | 34.39                 | 1,387.93                          | 372.48     | 1,204.68             | 1,112.30              | 92.39                   | 13.040                    |          |
| 4,000.00                                                                                             | 3,973.91            | 3,960.11            | 3,960.11            | 14.21           | 80.55       | 34.95                 | 1,387.93                          | 372.48     | 1,187.53             | 1,092.81              | 94.72                   | 12.537                    |          |
| 4,100.00                                                                                             | 4,071.74            | 4,057.94            | 4,057.94            | 14.58           | 82.51       | 35.53                 | 1,387.93                          | 372.48     | 1,170.50             | 1,073.44              | 97.05                   | 12.060                    |          |
| 4,200.00                                                                                             | 4,169.57            | 4,155.77            | 4,155.77            | 14.96           | 84.48       | 36.12                 | 1,387.93                          | 372.48     | 1,153.58             | 1,054.19              | 99.39                   | 11.607                    |          |
| 4,300.00                                                                                             | 4,267.41            | 4,253.61            | 4,253.61            | 15.33           | 86.44       | 36.73                 | 1,387.93                          | 372.48     | 1,136.79             | 1,035.07              | 101.73                  | 11.175                    |          |
| 4,400.00                                                                                             | 4,365.24            | 4,351.44            | 4,351.44            | 15.71           | 88.41       | 37.36                 | 1,387.93                          | 372.48     | 1,120.14             | 1,016.07              | 104.07                  | 10.763                    |          |
| 4,500.00                                                                                             | 4,463.07            | 4,449.27            | 4,449.27            | 16.09           | 90.38       | 38.00                 | 1,387.93                          | 372.48     | 1,103.62             | 997.21                | 106.41                  | 10.371                    |          |
| 4,600.00                                                                                             | 4,560.90            | 4,547.10            | 4,547.10            | 16.47           | 92.34       | 38.67                 | 1,387.93                          | 372.48     | 1,087.24             | 978.48                | 108.75                  | 9.997                     |          |
| 4,700.00                                                                                             | 4,658.74            | 4,644.94            | 4,644.94            | 16.85           | 94.31       | 39.36                 | 1,387.93                          | 372.48     | 1,071.01             | 959.91                | 111.10                  | 9.640                     |          |
| 4,800.00                                                                                             | 4,756.57            | 4,742.77            | 4,742.77            | 17.23           | 96.28       | 40.06                 | 1,387.93                          | 372.48     | 1,054.94             | 941.50                | 113.44                  | 9.299                     |          |
| 4,900.00                                                                                             | 4,854.40            | 4,840.60            | 4,840.60            | 17.61           | 98.25       | 40.79                 | 1,387.93                          | 372.48     | 1,039.03             | 923.24                | 115.79                  | 8.973                     |          |
| 5,000.00                                                                                             | 4,952.23            | 4,938.43            | 4,938.43            | 17.99           | 100.22      | 41.54                 | 1,387.93                          | 372.48     | 1,023.30             | 905.16                | 118.14                  | 8.662                     |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft  |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|----------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 10.00 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning  |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |          |
| 5,100.00                    | 5,050.07            | 5,036.27            | 5,036.27            | 18.37           | 102.19      | 42.32                 | 1,387.93                          | 372.48     | 1,007.74             | 887.26                | 120.49                  | 8.364             |                    |          |
| 5,200.00                    | 5,147.90            | 5,134.10            | 5,134.10            | 18.75           | 104.16      | 43.11                 | 1,387.93                          | 372.48     | 992.37               | 869.54                | 122.84                  | 8.079             |                    |          |
| 5,300.00                    | 5,245.73            | 5,231.93            | 5,231.93            | 19.14           | 106.13      | 43.93                 | 1,387.93                          | 372.48     | 977.21               | 852.02                | 125.19                  | 7.806             |                    |          |
| 5,400.00                    | 5,343.56            | 5,329.76            | 5,329.76            | 19.52           | 108.10      | 44.78                 | 1,387.93                          | 372.48     | 962.24               | 834.70                | 127.54                  | 7.545             |                    |          |
| 5,500.00                    | 5,441.40            | 5,427.60            | 5,427.60            | 19.90           | 110.07      | 45.65                 | 1,387.93                          | 372.48     | 947.49               | 817.60                | 129.89                  | 7.294             |                    |          |
| 5,600.00                    | 5,539.23            | 5,525.43            | 5,525.43            | 20.29           | 112.04      | 46.55                 | 1,387.93                          | 372.48     | 932.97               | 800.72                | 132.25                  | 7.055             |                    |          |
| 5,700.00                    | 5,637.06            | 5,623.26            | 5,623.26            | 20.67           | 114.01      | 47.48                 | 1,387.93                          | 372.48     | 918.69               | 784.09                | 134.61                  | 6.825             |                    |          |
| 5,800.00                    | 5,734.90            | 5,721.10            | 5,721.10            | 21.05           | 115.99      | 48.43                 | 1,387.93                          | 372.48     | 904.66               | 767.69                | 136.96                  | 6.605             |                    |          |
| 5,900.00                    | 5,832.73            | 5,818.93            | 5,818.93            | 21.44           | 117.96      | 49.42                 | 1,387.93                          | 372.48     | 890.88               | 751.56                | 139.32                  | 6.395             |                    |          |
| 6,000.00                    | 5,930.56            | 5,916.76            | 5,916.76            | 21.83           | 119.93      | 50.43                 | 1,387.93                          | 372.48     | 877.38               | 735.70                | 141.68                  | 6.193             |                    |          |
| 6,100.00                    | 6,028.39            | 6,014.59            | 6,014.59            | 22.21           | 121.90      | 51.48                 | 1,387.93                          | 372.48     | 864.16               | 720.12                | 144.04                  | 6.000             |                    |          |
| 6,200.00                    | 6,126.23            | 6,112.43            | 6,112.43            | 22.60           | 123.88      | 52.55                 | 1,387.93                          | 372.48     | 851.24               | 704.85                | 146.40                  | 5.815             |                    |          |
| 6,300.00                    | 6,224.06            | 6,210.26            | 6,210.26            | 22.98           | 125.85      | 53.66                 | 1,387.93                          | 372.48     | 838.64               | 689.88                | 148.76                  | 5.638             |                    |          |
| 6,400.00                    | 6,321.89            | 6,308.09            | 6,308.09            | 23.37           | 127.82      | 54.80                 | 1,387.93                          | 372.48     | 826.36               | 675.24                | 151.12                  | 5.468             |                    |          |
| 6,500.00                    | 6,419.72            | 6,405.92            | 6,405.92            | 23.76           | 129.80      | 55.97                 | 1,387.93                          | 372.48     | 814.42               | 660.94                | 153.48                  | 5.306             |                    |          |
| 6,600.00                    | 6,517.56            | 6,503.76            | 6,503.76            | 24.14           | 131.77      | 57.18                 | 1,387.93                          | 372.48     | 802.84               | 646.99                | 155.85                  | 5.151             |                    |          |
| 6,700.00                    | 6,615.39            | 6,601.59            | 6,601.59            | 24.53           | 133.74      | 58.42                 | 1,387.93                          | 372.48     | 791.63               | 633.42                | 158.21                  | 5.004             |                    |          |
| 6,800.00                    | 6,713.22            | 6,699.42            | 6,699.42            | 24.92           | 135.72      | 59.69                 | 1,387.93                          | 372.48     | 780.81               | 620.23                | 160.58                  | 4.863 Alert       |                    |          |
| 6,900.00                    | 6,811.05            | 6,797.25            | 6,797.25            | 25.30           | 137.69      | 61.00                 | 1,387.93                          | 372.48     | 770.39               | 607.45                | 162.94                  | 4.728 Alert       |                    |          |
| 7,000.00                    | 6,908.89            | 6,895.09            | 6,895.09            | 25.69           | 139.67      | 62.34                 | 1,387.93                          | 372.48     | 760.40               | 595.09                | 165.31                  | 4.600 Alert       |                    |          |
| 7,100.00                    | 7,006.72            | 6,992.92            | 6,992.92            | 26.08           | 141.64      | 63.72                 | 1,387.93                          | 372.48     | 750.84               | 583.17                | 167.68                  | 4.478 Alert       |                    |          |
| 7,200.00                    | 7,104.55            | 7,090.75            | 7,090.75            | 26.47           | 143.61      | 65.12                 | 1,387.93                          | 372.48     | 741.74               | 571.70                | 170.04                  | 4.362 Alert       |                    |          |
| 7,216.87                    | 7,121.05            | 7,107.25            | 7,107.25            | 26.53           | 143.95      | 65.36                 | 1,387.93                          | 372.48     | 740.25               | 569.81                | 170.44                  | 4.343 Alert       |                    |          |
| 7,300.00                    | 7,202.57            | 7,188.77            | 7,188.77            | 26.85           | 145.59      | 66.41                 | 1,387.93                          | 372.48     | 733.47               | 561.06                | 172.41                  | 4.254 Alert       |                    |          |
| 7,400.00                    | 7,301.06            | 7,287.26            | 7,287.26            | 27.23           | 147.58      | 67.55                 | 1,387.93                          | 372.48     | 726.62               | 551.84                | 174.78                  | 4.157 Alert       |                    |          |
| 7,500.00                    | 7,399.97            | 7,386.17            | 7,386.17            | 27.61           | 149.58      | 68.54                 | 1,387.93                          | 372.48     | 721.07               | 543.91                | 177.16                  | 4.070 Alert       |                    |          |
| 7,600.00                    | 7,499.23            | 7,485.43            | 7,485.43            | 27.98           | 151.58      | 69.37                 | 1,387.93                          | 372.48     | 716.70               | 537.16                | 179.53                  | 3.992 Alert       |                    |          |
| 7,700.00                    | 7,598.77            | 7,584.97            | 7,584.97            | 28.34           | 153.59      | 70.04                 | 1,387.93                          | 372.48     | 713.39               | 531.48                | 181.91                  | 3.922 Alert       |                    |          |
| 7,800.00                    | 7,698.53            | 7,684.73            | 7,684.73            | 28.70           | 155.61      | 70.53                 | 1,387.93                          | 372.48     | 711.06               | 526.78                | 184.28                  | 3.859 Alert       |                    |          |
| 7,900.00                    | 7,798.44            | 7,784.64            | 7,784.64            | 29.05           | 157.62      | 70.83                 | 1,387.93                          | 372.48     | 709.64               | 522.99                | 186.65                  | 3.802 Alert       |                    |          |
| 8,000.00                    | 7,898.42            | 7,884.62            | 7,884.62            | 29.39           | 159.64      | 70.95                 | 1,387.93                          | 372.48     | 709.09               | 520.08                | 189.01                  | 3.752 Alert       |                    |          |
| 8,013.58                    | 7,912.00            | 7,898.20            | 7,898.20            | 29.43           | 159.92      | 58.17                 | 1,387.93                          | 372.48     | 709.09               | 519.75                | 189.33                  | 3.745 Alert       |                    |          |
| 8,100.00                    | 7,998.42            | 7,984.62            | 7,984.62            | 29.73           | 161.66      | 58.17                 | 1,387.93                          | 372.48     | 709.09               | 517.72                | 191.37                  | 3.705 Alert       |                    |          |
| 8,200.00                    | 8,098.42            | 8,084.62            | 8,084.62            | 30.07           | 163.68      | 58.17                 | 1,387.93                          | 372.48     | 709.09               | 515.36                | 193.73                  | 3.660 Alert       |                    |          |
| 8,300.00                    | 8,198.42            | 8,184.62            | 8,184.62            | 30.41           | 165.70      | 58.17                 | 1,387.93                          | 372.48     | 709.09               | 513.00                | 196.09                  | 3.616 Alert       |                    |          |
| 8,363.62                    | 8,262.04            | 8,248.24            | 8,248.24            | 30.62           | 166.98      | 58.17                 | 1,387.93                          | 372.48     | 709.09               | 511.49                | 197.59                  | 3.589 Alert       |                    |          |
| 8,400.00                    | 8,298.40            | 8,284.60            | 8,284.60            | 30.75           | 167.72      | -31.58                | 1,387.93                          | 372.48     | 708.10               | 509.65                | 198.45                  | 3.568 Alert       |                    |          |
| 8,450.00                    | 8,348.10            | 8,334.30            | 8,334.30            | 30.91           | 168.72      | -32.05                | 1,387.93                          | 372.48     | 703.55               | 503.94                | 199.61                  | 3.525 Alert       |                    |          |
| 8,500.00                    | 8,397.14            | 8,383.34            | 8,383.34            | 31.07           | 169.71      | -32.92                | 1,387.93                          | 372.48     | 695.36               | 494.59                | 200.77                  | 3.464 Alert       |                    |          |
| 8,550.00                    | 8,445.15            | 8,431.35            | 8,431.35            | 31.23           | 170.68      | -34.22                | 1,387.93                          | 372.48     | 683.64               | 481.75                | 201.89                  | 3.386 Alert       |                    |          |
| 8,600.00                    | 8,491.77            | 8,477.97            | 8,477.97            | 31.38           | 171.63      | -35.99                | 1,387.93                          | 372.48     | 668.56               | 465.57                | 202.99                  | 3.294 Alert       |                    |          |
| 8,650.00                    | 8,536.65            | 8,522.85            | 8,522.85            | 31.52           | 172.53      | -38.28                | 1,387.93                          | 372.48     | 650.34               | 446.30                | 204.04                  | 3.187 Alert       |                    |          |
| 8,700.00                    | 8,579.43            | 8,565.63            | 8,565.63            | 31.66           | 173.40      | -41.16                | 1,387.93                          | 372.48     | 629.27               | 424.22                | 205.05                  | 3.069 Alert       |                    |          |
| 8,750.00                    | 8,619.80            | 8,606.00            | 8,606.00            | 31.80           | 174.21      | -44.69                | 1,387.93                          | 372.48     | 605.68               | 399.68                | 206.00                  | 2.940 Alert       |                    |          |
| 8,800.00                    | 8,657.44            | 8,643.64            | 8,643.64            | 31.93           | 174.97      | -48.90                | 1,387.93                          | 372.48     | 580.01               | 373.12                | 206.90                  | 2.803 Alert       |                    |          |
| 8,850.00                    | 8,692.08            | 8,678.28            | 8,678.28            | 32.06           | 175.67      | -53.79                | 1,387.93                          | 372.48     | 552.75               | 345.03                | 207.73                  | 2.661 Alert       |                    |          |
| 8,900.00                    | 8,723.44            | 8,709.64            | 8,709.64            | 32.19           | 176.30      | -59.26                | 1,387.93                          | 372.48     | 524.51               | 316.02                | 208.49                  | 2.516 Alert       |                    |          |
| 8,950.00                    | 8,751.29            | 8,737.49            | 8,737.49            | 32.34           | 176.87      | -65.12                | 1,387.93                          | 372.48     | 495.98               | 286.79                | 209.19                  | 2.371 Minor Risk  |                    |          |
| 9,000.00                    | 8,775.42            | 8,761.62            | 8,761.62            | 32.50           | 177.35      | -71.06                | 1,387.93                          | 372.48     | 468.01               | 258.17                | 209.84                  | 2.230 Minor Risk  |                    |          |
| 9,050.00                    | 8,795.64            | 8,781.84            | 8,781.84            | 32.67           | 177.76      | -76.69                | 1,387.93                          | 372.48     | 441.54               | 231.12                | 210.42                  | 2.098 Minor Risk  |                    |          |
| 9,100.00                    | 8,811.80            | 8,798.00            | 8,798.00            | 32.87           | 178.09      | -81.64                | 1,387.93                          | 372.48     | 417.67               | 206.73                | 210.94                  | 1.980 Minor Risk  |                    |          |
| 9,150.00                    | 8,823.77            | 8,809.97            | 8,809.97            | 33.10           | 178.33      | -85.60                | 1,387.93                          | 372.48     | 397.57               | 186.15                | 211.42                  | 1.880 Minor Risk  |                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft  |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|----------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 10.00 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning  |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |          |
| 9,200.00                    | 8,831.47            | 8,817.67            | 8,817.67            | 33.34           | 178.49      | -88.37                | 1,387.93                          | 372.48     | 382.38               | 170.56                | 211.82                  | 1.805             | Minor Risk         |          |
| 9,250.00                    | 8,834.84            | 8,821.04            | 8,821.04            | 33.60           | 178.55      | -89.83                | 1,387.93                          | 372.48     | 373.10               | 160.95                | 212.15                  | 1.759             | Minor Risk         |          |
| 9,263.62                    | 8,835.00            | 8,821.20            | 8,821.20            | 33.67           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 371.69               | 159.47                | 212.22                  | 1.751             | Minor Risk         |          |
| 9,295.36                    | 8,835.00            | 8,821.20            | 8,821.20            | 33.85           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 370.33               | 157.96                | 212.38                  | 1.744             | Minor Risk, CC, ES |          |
| 9,300.00                    | 8,835.00            | 8,821.20            | 8,821.20            | 33.88           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 370.36               | 157.96                | 212.40                  | 1.744             | Minor Risk, SF     |          |
| 9,400.00                    | 8,835.00            | 8,821.20            | 8,821.20            | 34.53           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 384.83               | 172.04                | 212.79                  | 1.809             | Minor Risk         |          |
| 9,500.00                    | 8,835.00            | 8,821.20            | 8,821.20            | 35.30           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 423.11               | 210.14                | 212.97                  | 1.987             | Minor Risk         |          |
| 9,600.00                    | 8,835.00            | 8,821.20            | 8,821.20            | 36.17           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 479.53               | 266.54                | 212.99                  | 2.251             | Minor Risk         |          |
| 9,700.00                    | 8,835.00            | 8,821.20            | 8,821.20            | 37.13           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 548.53               | 335.60                | 212.92                  | 2.576             | Alert              |          |
| 9,800.00                    | 8,835.00            | 8,821.20            | 8,821.20            | 38.18           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 625.95               | 413.12                | 212.83                  | 2.941             | Alert              |          |
| 9,900.00                    | 8,835.00            | 8,821.20            | 8,821.20            | 39.31           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 709.04               | 496.30                | 212.74                  | 3.333             | Alert              |          |
| 10,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 40.51           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 796.03               | 583.38                | 212.66                  | 3.743             | Alert              |          |
| 10,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 41.78           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 885.77               | 673.19                | 212.59                  | 4.167             | Alert              |          |
| 10,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 43.10           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 977.51               | 764.98                | 212.53                  | 4.599             | Alert              |          |
| 10,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 44.49           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,070.73             | 858.24                | 212.48                  | 5.039             |                    |          |
| 10,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 45.92           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,165.07             | 952.62                | 212.44                  | 5.484             |                    |          |
| 10,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 47.39           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,260.28             | 1,047.87              | 212.41                  | 5.933             |                    |          |
| 10,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 48.91           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,356.19             | 1,143.79              | 212.39                  | 6.385             |                    |          |
| 10,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 50.47           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,452.64             | 1,240.27              | 212.37                  | 6.840             |                    |          |
| 10,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 52.06           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,549.55             | 1,337.19              | 212.36                  | 7.297             |                    |          |
| 10,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 53.68           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,646.82             | 1,434.47              | 212.35                  | 7.755             |                    |          |
| 11,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 55.32           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,744.41             | 1,532.06              | 212.35                  | 8.215             |                    |          |
| 11,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 57.00           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,842.25             | 1,629.90              | 212.35                  | 8.676             |                    |          |
| 11,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 58.70           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,940.31             | 1,727.96              | 212.35                  | 9.137             |                    |          |
| 11,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 60.41           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,038.56             | 1,826.21              | 212.36                  | 9.600             |                    |          |
| 11,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 62.15           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,136.98             | 1,924.61              | 212.37                  | 10.063            |                    |          |
| 11,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 63.91           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,235.53             | 2,023.16              | 212.38                  | 10.526            |                    |          |
| 11,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 65.69           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,334.21             | 2,121.82              | 212.39                  | 10.990            |                    |          |
| 11,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 67.47           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,432.99             | 2,220.59              | 212.40                  | 11.455            |                    |          |
| 11,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 69.28           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,531.87             | 2,319.46              | 212.42                  | 11.919            |                    |          |
| 11,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 71.09           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,630.84             | 2,418.40              | 212.43                  | 12.384            |                    |          |
| 12,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 72.92           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,729.88             | 2,517.43              | 212.45                  | 12.849            |                    |          |
| 12,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 74.76           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,828.99             | 2,616.51              | 212.48                  | 13.314            |                    |          |
| 12,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 76.61           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,928.16             | 2,715.66              | 212.50                  | 13.780            |                    |          |
| 12,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 78.47           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,027.38             | 2,814.86              | 212.52                  | 14.245            |                    |          |
| 12,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 80.34           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,126.65             | 2,914.11              | 212.55                  | 14.710            |                    |          |
| 12,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 82.22           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,225.97             | 3,013.40              | 212.57                  | 15.176            |                    |          |
| 12,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 84.11           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,325.33             | 3,112.73              | 212.60                  | 15.641            |                    |          |
| 12,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 86.00           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,424.73             | 3,212.10              | 212.63                  | 16.107            |                    |          |
| 12,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 87.90           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,524.16             | 3,311.50              | 212.66                  | 16.572            |                    |          |
| 12,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 89.81           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,623.62             | 3,410.93              | 212.69                  | 17.037            |                    |          |
| 13,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 91.72           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,723.11             | 3,510.38              | 212.72                  | 17.502            |                    |          |
| 13,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 93.64           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,822.62             | 3,609.87              | 212.76                  | 17.967            |                    |          |
| 13,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 95.56           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,922.17             | 3,709.37              | 212.79                  | 18.432            |                    |          |
| 13,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 97.49           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,021.73             | 3,808.90              | 212.83                  | 18.897            |                    |          |
| 13,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 99.42           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,121.32             | 3,908.45              | 212.87                  | 19.361            |                    |          |
| 13,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 101.36          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,220.92             | 4,008.02              | 212.90                  | 19.826            |                    |          |
| 13,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 103.30          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,320.54             | 4,107.60              | 212.94                  | 20.290            |                    |          |
| 13,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 105.25          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,420.18             | 4,207.20              | 212.98                  | 20.754            |                    |          |
| 13,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 107.20          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,519.84             | 4,306.82              | 213.02                  | 21.218            |                    |          |
| 13,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 109.15          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,619.51             | 4,406.45              | 213.07                  | 21.681            |                    |          |
| 14,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 111.10          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,719.20             | 4,506.09              | 213.11                  | 22.145            |                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft  |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|----------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 10.00 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |          |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |          |
| 14,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 113.06          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,818.89             | 4,605.74              | 213.15                  | 22.608            |                    |          |
| 14,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 115.03          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,918.61             | 4,705.41              | 213.20                  | 23.071            |                    |          |
| 14,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 116.99          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,018.33             | 4,805.08              | 213.24                  | 23.533            |                    |          |
| 14,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 118.96          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,118.06             | 4,904.77              | 213.29                  | 23.996            |                    |          |
| 14,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 120.93          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,217.80             | 5,004.47              | 213.34                  | 24.458            |                    |          |
| 14,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 122.90          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,317.55             | 5,104.17              | 213.39                  | 24.920            |                    |          |
| 14,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 124.88          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,417.32             | 5,203.88              | 213.44                  | 25.382            |                    |          |
| 14,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 126.86          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,517.09             | 5,303.60              | 213.49                  | 25.843            |                    |          |
| 14,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 128.84          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,616.87             | 5,403.33              | 213.54                  | 26.304            |                    |          |
| 15,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 130.82          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,716.65             | 5,503.06              | 213.59                  | 26.765            |                    |          |
| 15,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 132.80          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,816.45             | 5,602.80              | 213.64                  | 27.225            |                    |          |
| 15,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 134.79          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,916.25             | 5,702.55              | 213.70                  | 27.685            |                    |          |
| 15,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 136.78          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,016.05             | 5,802.30              | 213.75                  | 28.145            |                    |          |
| 15,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 138.76          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,115.87             | 5,902.06              | 213.81                  | 28.605            |                    |          |
| 15,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 140.76          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,215.69             | 6,001.82              | 213.86                  | 29.064            |                    |          |
| 15,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 142.75          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,315.51             | 6,101.59              | 213.92                  | 29.523            |                    |          |
| 15,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 144.74          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,415.34             | 6,201.36              | 213.98                  | 29.981            |                    |          |
| 15,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 146.74          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,515.18             | 6,301.14              | 214.04                  | 30.440            |                    |          |
| 15,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 148.73          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,615.02             | 6,400.92              | 214.10                  | 30.897            |                    |          |
| 16,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 150.73          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,714.86             | 6,500.71              | 214.16                  | 31.355            |                    |          |
| 16,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 152.73          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,814.71             | 6,600.50              | 214.22                  | 31.812            |                    |          |
| 16,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 154.73          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,914.57             | 6,700.29              | 214.28                  | 32.269            |                    |          |
| 16,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 156.73          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,014.43             | 6,800.08              | 214.34                  | 32.725            |                    |          |
| 16,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 158.74          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,114.29             | 6,899.88              | 214.41                  | 33.181            |                    |          |
| 16,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 160.74          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,214.16             | 6,999.68              | 214.47                  | 33.637            |                    |          |
| 16,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 162.74          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,314.03             | 7,099.49              | 214.54                  | 34.092            |                    |          |
| 16,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 164.75          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,413.90             | 7,199.30              | 214.60                  | 34.547            |                    |          |
| 16,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 166.76          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,513.78             | 7,299.11              | 214.67                  | 35.002            |                    |          |
| 16,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 168.77          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,613.66             | 7,398.92              | 214.74                  | 35.456            |                    |          |
| 17,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 170.77          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,713.54             | 7,498.73              | 214.80                  | 35.910            |                    |          |
| 17,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 172.78          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,813.42             | 7,598.55              | 214.87                  | 36.363            |                    |          |
| 17,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 174.79          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,913.31             | 7,698.37              | 214.94                  | 36.816            |                    |          |
| 17,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 176.81          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,013.21             | 7,798.19              | 215.01                  | 37.268            |                    |          |
| 17,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 178.82          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,113.10             | 7,898.02              | 215.09                  | 37.720            |                    |          |
| 17,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 180.83          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,213.00             | 7,997.84              | 215.16                  | 38.172            |                    |          |
| 17,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 182.84          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,312.90             | 8,097.67              | 215.23                  | 38.623            |                    |          |
| 17,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 184.86          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,412.80             | 8,197.50              | 215.30                  | 39.074            |                    |          |
| 17,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 186.87          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,512.70             | 8,297.33              | 215.38                  | 39.525            |                    |          |
| 17,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 188.89          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,612.61             | 8,397.16              | 215.45                  | 39.975            |                    |          |
| 18,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 190.91          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,712.52             | 8,496.99              | 215.53                  | 40.424            |                    |          |
| 18,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 192.92          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,812.43             | 8,596.83              | 215.60                  | 40.873            |                    |          |
| 18,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 194.94          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,912.34             | 8,696.66              | 215.68                  | 41.322            |                    |          |
| 18,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 196.96          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,012.26             | 8,796.50              | 215.76                  | 41.770            |                    |          |
| 18,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 198.98          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,112.17             | 8,896.34              | 215.84                  | 42.218            |                    |          |
| 18,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 201.00          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,212.09             | 8,996.18              | 215.91                  | 42.665            |                    |          |
| 18,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 203.02          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,312.01             | 9,096.02              | 215.99                  | 43.112            |                    |          |
| 18,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 205.04          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,411.93             | 9,195.86              | 216.07                  | 43.559            |                    |          |
| 18,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 207.06          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,511.86             | 9,295.70              | 216.16                  | 44.005            |                    |          |
| 18,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 209.08          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,611.78             | 9,395.54              | 216.24                  | 44.450            |                    |          |
| 19,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 211.10          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,711.71             | 9,495.39              | 216.32                  | 44.895            |                    |          |
| 19,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 213.12          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,811.64             | 9,595.23              | 216.40                  | 45.340            |                    |          |
| 19,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 215.15          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,911.56             | 9,695.08              | 216.48                  | 45.784            |                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                       | 0.00                | 11.50               | 11.50               | 0.50            | 0.50        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             |                       |                         |                   |                    |         |
| 100.00                     | 100.00              | 111.50              | 111.50              | 0.52            | 0.53        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,557.66              | 1.05                    | 1,487.726         |                    |         |
| 200.00                     | 200.00              | 211.50              | 211.50              | 0.70            | 0.73        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,557.27              | 1.43                    | 1,087.164         |                    |         |
| 300.00                     | 300.00              | 311.50              | 311.50              | 0.99            | 1.02        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,556.70              | 2.01                    | 775.310           |                    |         |
| 400.00                     | 400.00              | 411.50              | 411.50              | 1.31            | 1.35        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,556.05              | 2.66                    | 586.781           |                    |         |
| 500.00                     | 500.00              | 511.50              | 511.50              | 1.65            | 1.69        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,555.38              | 3.33                    | 467.870           |                    |         |
| 600.00                     | 600.00              | 611.50              | 611.50              | 1.99            | 2.03        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,554.69              | 4.02                    | 387.629           |                    |         |
| 700.00                     | 700.00              | 711.50              | 711.50              | 2.34            | 2.38        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,553.99              | 4.72                    | 330.310           |                    |         |
| 800.00                     | 800.00              | 811.50              | 811.50              | 2.69            | 2.73        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,553.29              | 5.42                    | 287.494           |                    |         |
| 900.00                     | 900.00              | 911.50              | 911.50              | 3.04            | 3.08        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,552.58              | 6.13                    | 254.368           |                    |         |
| 1,000.00                   | 1,000.00            | 1,011.50            | 1,011.50            | 3.40            | 3.44        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,551.87              | 6.84                    | 228.011           |                    |         |
| 1,100.00                   | 1,100.00            | 1,111.50            | 1,111.50            | 3.75            | 3.79        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,551.16              | 7.55                    | 206.559           |                    |         |
| 1,200.00                   | 1,200.00            | 1,211.50            | 1,211.50            | 4.11            | 4.15        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,550.45              | 8.26                    | 188.769           |                    |         |
| 1,300.00                   | 1,300.00            | 1,311.50            | 1,311.50            | 4.46            | 4.51        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,549.74              | 8.97                    | 173.782           |                    |         |
| 1,400.00                   | 1,400.00            | 1,411.50            | 1,411.50            | 4.82            | 4.86        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,549.02              | 9.68                    | 160.988           |                    |         |
| 1,500.00                   | 1,500.00            | 1,511.50            | 1,511.50            | 5.18            | 5.22        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,548.31              | 10.40                   | 149.941           |                    |         |
| 1,600.00                   | 1,600.00            | 1,611.50            | 1,611.50            | 5.53            | 5.58        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,547.60              | 11.11                   | 140.306           |                    |         |
| 1,700.00                   | 1,700.00            | 1,711.50            | 1,711.50            | 5.89            | 5.93        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,546.88              | 11.82                   | 131.831           |                    |         |
| 1,800.00                   | 1,800.00            | 1,811.50            | 1,811.50            | 6.25            | 6.29        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,546.17              | 12.54                   | 124.318           |                    |         |
| 1,900.00                   | 1,900.00            | 1,911.50            | 1,911.50            | 6.61            | 6.65        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,545.45              | 13.25                   | 117.613           |                    |         |
| 1,912.34                   | 1,912.34            | 1,923.84            | 1,923.84            | 6.65            | 6.69        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,545.37              | 13.34                   | 116.836           |                    |         |
| 2,000.00                   | 2,000.00            | 2,009.08            | 2,009.08            | 6.96            | 7.00        | -0.13                 | 1,558.71                          | -3.48      | 1,558.72             | 1,544.76              | 13.96                   | 111.663           |                    |         |
| 2,100.00                   | 2,099.99            | 2,088.04            | 2,088.04            | 7.32            | 7.28        | 12.65                 | 1,559.37                          | -3.62      | 1,558.69             | 1,544.10              | 14.60                   | 106.779           |                    |         |
| 2,200.00                   | 2,199.96            | 2,167.00            | 2,166.98            | 7.68            | 7.56        | 12.66                 | 1,561.09                          | -3.97      | 1,558.32             | 1,543.09              | 15.23                   | 102.298           |                    |         |
| 2,300.00                   | 2,299.86            | 2,245.96            | 2,245.89            | 8.04            | 7.84        | 12.67                 | 1,563.87                          | -4.55      | 1,557.59             | 1,541.73              | 15.87                   | 98.169            |                    |         |
| 2,400.00                   | 2,399.68            | 2,324.94            | 2,324.76            | 8.39            | 8.12        | 12.68                 | 1,567.72                          | -5.35      | 1,556.51             | 1,540.02              | 16.50                   | 94.349            |                    |         |
| 2,500.00                   | 2,499.37            | 2,403.92            | 2,403.58            | 8.75            | 8.41        | 12.69                 | 1,572.64                          | -6.37      | 1,555.08             | 1,537.95              | 17.13                   | 90.803            |                    |         |
| 2,600.00                   | 2,598.90            | 2,482.92            | 2,482.34            | 9.11            | 8.69        | 12.71                 | 1,578.62                          | -7.62      | 1,553.30             | 1,535.54              | 17.75                   | 87.499            |                    |         |
| 2,700.00                   | 2,698.26            | 2,561.93            | 2,561.03            | 9.46            | 8.97        | 12.74                 | 1,585.66                          | -9.08      | 1,551.16             | 1,532.78              | 18.38                   | 84.411            |                    |         |
| 2,800.00                   | 2,797.40            | 2,640.96            | 2,639.62            | 9.82            | 9.25        | 12.76                 | 1,593.77                          | -10.76     | 1,548.67             | 1,529.67              | 19.00                   | 81.517            |                    |         |
| 2,900.00                   | 2,896.30            | 2,720.01            | 2,718.12            | 10.18           | 9.54        | 12.80                 | 1,602.94                          | -12.67     | 1,545.83             | 1,526.21              | 19.62                   | 78.796            |                    |         |
| 3,000.00                   | 2,994.93            | 2,800.00            | 2,797.40            | 10.54           | 9.82        | 12.83                 | 1,613.30                          | -14.82     | 1,542.64             | 1,522.40              | 20.24                   | 76.214            |                    |         |
| 3,100.00                   | 3,093.26            | 2,878.20            | 2,874.76            | 10.90           | 10.10       | 12.87                 | 1,624.47                          | -17.14     | 1,539.10             | 1,518.25              | 20.85                   | 73.805            |                    |         |
| 3,195.07                   | 3,186.42            | 2,953.43            | 2,949.04            | 11.24           | 10.37       | 12.91                 | 1,636.19                          | -19.58     | 1,535.41             | 1,513.98              | 21.44                   | 71.618            |                    |         |
| 3,200.00                   | 3,191.25            | 2,957.34            | 2,952.89            | 11.26           | 10.38       | 12.91                 | 1,636.83                          | -19.71     | 1,535.22             | 1,513.75              | 21.47                   | 71.507            |                    |         |
| 3,300.00                   | 3,289.08            | 3,036.53            | 3,030.89            | 11.62           | 10.67       | 12.95                 | 1,650.25                          | -22.50     | 1,531.91             | 1,509.83              | 22.08                   | 69.368            |                    |         |
| 3,400.00                   | 3,386.91            | 3,120.30            | 3,108.24            | 11.98           | 10.97       | 12.97                 | 1,664.64                          | -25.49     | 1,529.97             | 1,507.25              | 22.71                   | 67.360            |                    |         |
| 3,500.00                   | 3,484.74            | 3,215.26            | 3,206.34            | 12.35           | 11.31       | 12.99                 | 1,683.62                          | -29.43     | 1,528.73             | 1,505.30              | 23.43                   | 65.260            |                    |         |
| 3,600.00                   | 3,582.58            | 3,315.25            | 3,304.43            | 12.72           | 11.67       | 13.02                 | 1,702.60                          | -33.37     | 1,527.49             | 1,503.33              | 24.16                   | 63.229            |                    |         |
| 3,700.00                   | 3,680.41            | 3,415.24            | 3,402.52            | 13.09           | 12.04       | 13.04                 | 1,721.58                          | -37.32     | 1,526.25             | 1,501.36              | 24.89                   | 61.312            |                    |         |
| 3,800.00                   | 3,778.24            | 3,515.23            | 3,500.62            | 13.46           | 12.40       | 13.07                 | 1,740.56                          | -41.26     | 1,525.02             | 1,499.38              | 25.63                   | 59.499            |                    |         |
| 3,900.00                   | 3,876.08            | 3,615.22            | 3,598.71            | 13.83           | 12.77       | 13.09                 | 1,759.54                          | -45.20     | 1,523.78             | 1,497.41              | 26.37                   | 57.784            |                    |         |
| 4,000.00                   | 3,973.91            | 3,715.21            | 3,696.80            | 14.21           | 13.14       | 13.12                 | 1,778.51                          | -49.14     | 1,522.54             | 1,495.43              | 27.11                   | 56.158            |                    |         |
| 4,100.00                   | 4,071.74            | 3,815.20            | 3,794.90            | 14.58           | 13.51       | 13.14                 | 1,797.49                          | -53.09     | 1,521.31             | 1,493.45              | 27.85                   | 54.616            |                    |         |
| 4,200.00                   | 4,169.57            | 3,915.19            | 3,892.99            | 14.96           | 13.88       | 13.17                 | 1,816.47                          | -57.03     | 1,520.07             | 1,491.47              | 28.60                   | 53.150            |                    |         |
| 4,300.00                   | 4,267.41            | 4,015.18            | 3,991.08            | 15.33           | 14.25       | 13.19                 | 1,835.45                          | -60.97     | 1,518.83             | 1,489.49              | 29.35                   | 51.757            |                    |         |
| 4,400.00                   | 4,365.24            | 4,115.18            | 4,089.18            | 15.71           | 14.63       | 13.21                 | 1,854.43                          | -64.91     | 1,517.60             | 1,487.50              | 30.09                   | 50.430            |                    |         |
| 4,500.00                   | 4,463.07            | 4,215.17            | 4,187.27            | 16.09           | 15.00       | 13.24                 | 1,873.41                          | -68.86     | 1,516.36             | 1,485.52              | 30.84                   | 49.166            |                    |         |
| 4,600.00                   | 4,560.90            | 4,315.16            | 4,285.36            | 16.47           | 15.37       | 13.26                 | 1,892.38                          | -72.80     | 1,515.13             | 1,483.54              | 31.59                   | 47.960            |                    |         |
| 4,700.00                   | 4,658.74            | 4,415.15            | 4,383.46            | 16.85           | 15.75       | 13.29                 | 1,911.36                          | -76.74     | 1,513.89             | 1,481.55              | 32.34                   | 46.808            |                    |         |
| 4,800.00                   | 4,756.57            | 4,515.14            | 4,481.55            | 17.23           | 16.12       | 13.31                 | 1,930.34                          | -80.68     | 1,512.66             | 1,479.56              | 33.09                   | 45.707            |                    |         |
| 4,900.00                   | 4,854.40            | 4,615.13            | 4,579.65            | 17.61           | 16.50       | 13.34                 | 1,949.32                          | -84.63     | 1,511.42             | 1,477.58              | 33.85                   | 44.654            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,000.00                   | 4,952.23            | 4,715.12            | 4,677.74            | 17.99           | 16.88       | 13.36                 | 1,968.30                          | -88.57     | 1,510.19             | 1,475.59              | 34.60                   | 43.645            |                    |         |
| 5,100.00                   | 5,050.07            | 4,815.11            | 4,775.83            | 18.37           | 17.25       | 13.39                 | 1,987.28                          | -92.51     | 1,508.96             | 1,473.60              | 35.36                   | 42.678            |                    |         |
| 5,200.00                   | 5,147.90            | 4,915.10            | 4,873.93            | 18.75           | 17.63       | 13.41                 | 2,006.25                          | -96.46     | 1,507.72             | 1,471.61              | 36.11                   | 41.751            |                    |         |
| 5,300.00                   | 5,245.73            | 5,015.09            | 4,972.02            | 19.14           | 18.01       | 13.44                 | 2,025.23                          | -100.40    | 1,506.49             | 1,469.62              | 36.87                   | 40.862            |                    |         |
| 5,400.00                   | 5,343.56            | 5,115.08            | 5,070.11            | 19.52           | 18.39       | 13.46                 | 2,044.21                          | -104.34    | 1,505.26             | 1,467.63              | 37.62                   | 40.007            |                    |         |
| 5,500.00                   | 5,441.40            | 5,215.07            | 5,168.21            | 19.90           | 18.77       | 13.49                 | 2,063.19                          | -108.28    | 1,504.03             | 1,465.64              | 38.38                   | 39.185            |                    |         |
| 5,600.00                   | 5,539.23            | 5,315.06            | 5,266.30            | 20.29           | 19.15       | 13.51                 | 2,082.17                          | -112.23    | 1,502.79             | 1,463.65              | 39.14                   | 38.395            |                    |         |
| 5,700.00                   | 5,637.06            | 5,415.05            | 5,364.39            | 20.67           | 19.53       | 13.54                 | 2,101.15                          | -116.17    | 1,501.56             | 1,461.66              | 39.90                   | 37.634            |                    |         |
| 5,800.00                   | 5,734.90            | 5,515.04            | 5,462.49            | 21.05           | 19.91       | 13.56                 | 2,120.12                          | -120.11    | 1,500.33             | 1,459.67              | 40.66                   | 36.901            |                    |         |
| 5,900.00                   | 5,832.73            | 5,615.03            | 5,560.58            | 21.44           | 20.29       | 13.59                 | 2,139.10                          | -124.05    | 1,499.10             | 1,457.68              | 41.42                   | 36.194            |                    |         |
| 6,000.00                   | 5,930.56            | 5,715.02            | 5,658.67            | 21.83           | 20.67       | 13.61                 | 2,158.08                          | -128.00    | 1,497.87             | 1,455.69              | 42.18                   | 35.512            |                    |         |
| 6,100.00                   | 6,028.39            | 5,815.01            | 5,756.77            | 22.21           | 21.05       | 13.64                 | 2,177.06                          | -131.94    | 1,496.64             | 1,453.70              | 42.94                   | 34.855            |                    |         |
| 6,200.00                   | 6,126.23            | 5,915.00            | 5,854.86            | 22.60           | 21.43       | 13.67                 | 2,196.04                          | -135.88    | 1,495.41             | 1,451.71              | 43.70                   | 34.219            |                    |         |
| 6,300.00                   | 6,224.06            | 6,014.99            | 5,952.95            | 22.98           | 21.81       | 13.69                 | 2,215.02                          | -139.82    | 1,494.18             | 1,449.71              | 44.46                   | 33.605            |                    |         |
| 6,400.00                   | 6,321.89            | 6,114.98            | 6,051.05            | 23.37           | 22.20       | 13.72                 | 2,233.99                          | -143.77    | 1,492.95             | 1,447.72              | 45.22                   | 33.012            |                    |         |
| 6,500.00                   | 6,419.72            | 6,214.97            | 6,149.14            | 23.76           | 22.58       | 13.74                 | 2,252.97                          | -147.71    | 1,491.72             | 1,445.73              | 45.99                   | 32.438            |                    |         |
| 6,600.00                   | 6,517.56            | 6,314.96            | 6,247.23            | 24.14           | 22.96       | 13.77                 | 2,271.95                          | -151.65    | 1,490.49             | 1,443.74              | 46.75                   | 31.882            |                    |         |
| 6,700.00                   | 6,615.39            | 6,414.95            | 6,345.33            | 24.53           | 23.34       | 13.79                 | 2,290.93                          | -155.59    | 1,489.26             | 1,441.75              | 47.51                   | 31.345            |                    |         |
| 6,800.00                   | 6,713.22            | 6,514.94            | 6,443.42            | 24.92           | 23.73       | 13.82                 | 2,309.91                          | -159.54    | 1,488.03             | 1,439.76              | 48.28                   | 30.823            |                    |         |
| 6,900.00                   | 6,811.05            | 6,614.93            | 6,541.51            | 25.30           | 24.11       | 13.84                 | 2,328.89                          | -163.48    | 1,486.80             | 1,437.76              | 49.04                   | 30.318            |                    |         |
| 7,000.00                   | 6,908.89            | 6,714.92            | 6,639.61            | 25.69           | 24.49       | 13.87                 | 2,347.86                          | -167.42    | 1,485.57             | 1,435.77              | 49.80                   | 29.829            |                    |         |
| 7,100.00                   | 7,006.72            | 6,814.91            | 6,737.70            | 26.08           | 24.88       | 13.90                 | 2,366.84                          | -171.36    | 1,484.35             | 1,433.78              | 50.57                   | 29.354            |                    |         |
| 7,200.00                   | 7,104.55            | 6,914.90            | 6,835.79            | 26.47           | 25.26       | 13.92                 | 2,385.82                          | -175.31    | 1,483.12             | 1,431.79              | 51.33                   | 28.892            |                    |         |
| 7,216.87                   | 7,121.05            | 6,931.77            | 6,852.34            | 26.53           | 25.32       | 13.93                 | 2,389.02                          | -175.97    | 1,482.91             | 1,431.45              | 51.46                   | 28.816            |                    |         |
| 7,265.16                   | 7,168.36            | 6,980.06            | 6,899.72            | 26.72           | 25.51       | 13.93                 | 2,398.19                          | -177.88    | 1,482.62             | 1,430.79              | 51.83                   | 28.605 CC         |                    |         |
| 7,300.00                   | 7,202.57            | 7,014.90            | 6,933.89            | 26.85           | 25.64       | 13.94                 | 2,404.80                          | -179.25    | 1,482.77             | 1,430.67              | 52.10                   | 28.462            |                    |         |
| 7,400.00                   | 7,301.06            | 7,114.87            | 7,031.97            | 27.23           | 26.03       | 13.94                 | 2,423.78                          | -183.19    | 1,484.93             | 1,432.07              | 52.85                   | 28.094            |                    |         |
| 7,500.00                   | 7,399.97            | 7,214.76            | 7,129.96            | 27.61           | 26.41       | 13.93                 | 2,442.73                          | -187.13    | 1,489.62             | 1,436.01              | 53.61                   | 27.787            |                    |         |
| 7,600.00                   | 7,499.23            | 7,314.48            | 7,227.79            | 27.98           | 26.79       | 13.90                 | 2,461.66                          | -191.06    | 1,496.85             | 1,442.50              | 54.36                   | 27.538            |                    |         |
| 7,700.00                   | 7,598.77            | 7,413.98            | 7,325.40            | 28.34           | 27.18       | 13.85                 | 2,480.55                          | -194.99    | 1,506.62             | 1,451.52              | 55.10                   | 27.345            |                    |         |
| 7,800.00                   | 7,698.53            | 7,513.18            | 7,422.73            | 28.70           | 27.56       | 13.80                 | 2,499.38                          | -198.90    | 1,518.92             | 1,463.09              | 55.83                   | 27.206            |                    |         |
| 7,900.00                   | 7,798.44            | 7,612.02            | 7,519.69            | 29.05           | 27.94       | 13.73                 | 2,518.14                          | -202.79    | 1,533.74             | 1,477.18              | 56.56                   | 27.119            |                    |         |
| 8,000.00                   | 7,898.42            | 7,710.43            | 7,616.23            | 29.39           | 28.32       | 13.65                 | 2,536.82                          | -206.68    | 1,551.08             | 1,493.80              | 57.27                   | 27.082            |                    |         |
| 8,013.58                   | 7,912.00            | 7,723.76            | 7,629.30            | 29.43           | 28.37       | 0.86                  | 2,539.34                          | -207.20    | 1,553.62             | 1,496.25              | 57.37                   | 27.080            |                    |         |
| 8,100.00                   | 7,998.42            | 7,808.54            | 7,712.48            | 29.73           | 28.69       | 0.72                  | 2,555.44                          | -210.54    | 1,569.99             | 1,512.01              | 57.99                   | 27.076            |                    |         |
| 8,200.00                   | 8,098.42            | 7,906.64            | 7,808.72            | 30.07           | 29.07       | 0.57                  | 2,574.06                          | -214.41    | 1,588.94             | 1,530.25              | 58.70                   | 27.070            |                    |         |
| 8,300.00                   | 8,198.42            | 8,004.74            | 7,904.96            | 30.41           | 29.45       | 0.43                  | 2,592.68                          | -218.28    | 1,607.90             | 1,548.50              | 59.41                   | 27.065            |                    |         |
| 8,363.62                   | 8,262.04            | 8,067.16            | 7,966.19            | 30.62           | 29.69       | 0.33                  | 2,604.52                          | -220.74    | 1,619.97             | 1,560.11              | 59.86                   | 27.062            |                    |         |
| 8,400.00                   | 8,298.40            | 8,102.78            | 8,001.14            | 30.75           | 29.83       | -88.72                | 2,611.28                          | -222.15    | 1,626.86             | 1,566.74              | 60.12                   | 27.061            |                    |         |
| 8,450.00                   | 8,348.10            | 8,151.33            | 8,048.77            | 30.91           | 30.01       | -88.02                | 2,620.50                          | -224.06    | 1,636.25             | 1,575.79              | 60.46                   | 27.063            |                    |         |
| 8,500.00                   | 8,397.14            | 8,200.93            | 8,095.60            | 31.07           | 30.20       | -87.47                | 2,629.56                          | -225.94    | 1,645.56             | 1,584.75              | 60.81                   | 27.062            |                    |         |
| 8,550.00                   | 8,445.15            | 8,245.64            | 8,141.29            | 31.23           | 30.38       | -87.05                | 2,638.40                          | -227.78    | 1,654.79             | 1,593.66              | 61.13                   | 27.069            |                    |         |
| 8,600.00                   | 8,491.77            | 8,290.69            | 8,185.48            | 31.38           | 30.55       | -86.75                | 2,646.95                          | -229.55    | 1,663.99             | 1,602.53              | 61.46                   | 27.076            |                    |         |
| 8,650.00                   | 8,536.65            | 8,333.87            | 8,227.84            | 31.52           | 30.72       | -86.53                | 2,655.14                          | -231.26    | 1,673.22             | 1,611.45              | 61.77                   | 27.088            |                    |         |
| 8,700.00                   | 8,579.43            | 8,377.12            | 8,270.28            | 31.66           | 30.88       | -86.41                | 2,663.36                          | -232.78    | 1,682.57             | 1,620.49              | 62.08                   | 27.101            |                    |         |
| 8,750.00                   | 8,619.80            | 8,426.52            | 8,318.74            | 31.80           | 31.07       | -86.42                | 2,672.75                          | -231.34    | 1,691.96             | 1,629.53              | 62.44                   | 27.099            |                    |         |
| 8,800.00                   | 8,657.44            | 8,479.23            | 8,370.11            | 31.93           | 31.26       | -86.49                | 2,682.74                          | -225.12    | 1,701.29             | 1,638.48              | 62.81                   | 27.088            |                    |         |
| 8,850.00                   | 8,692.08            | 8,535.94            | 8,424.48            | 32.06           | 31.45       | -86.63                | 2,693.34                          | -213.10    | 1,710.46             | 1,647.27              | 63.19                   | 27.068            |                    |         |
| 8,900.00                   | 8,723.44            | 8,597.49            | 8,481.84            | 32.19           | 31.65       | -86.85                | 2,704.57                          | -193.92    | 1,719.38             | 1,655.79              | 63.59                   | 27.038            |                    |         |
| 8,950.00                   | 8,751.29            | 8,664.85            | 8,541.90            | 32.34           | 31.85       | -87.17                | 2,716.37                          | -165.89    | 1,727.91             | 1,663.90              | 64.00                   | 26.998            |                    |         |
| 9,000.00                   | 8,775.42            | 8,739.12            | 8,603.86            | 32.50           | 32.05       | -87.57                | 2,728.60                          | -126.91    | 1,735.88             | 1,671.46              | 64.42                   | 26.945            |                    |         |
| 9,050.00                   | 8,795.64            | 8,821.41            | 8,666.07            | 32.67           | 32.25       | -88.04                | 2,740.96                          | -74.60     | 1,743.11             | 1,678.25              | 64.86                   | 26.876            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,100.00                   | 8,811.80            | 8,912.59            | 8,725.62            | 32.87           | 32.45       | -88.56                | 2,752.90                          | -6.71      | 1,749.35             | 1,684.04              | 65.32                   | 26.782            |                    |         |
| 9,150.00                   | 8,823.77            | 9,012.96            | 8,778.01            | 33.10           | 32.72       | -89.07                | 2,763.55                          | 78.08      | 1,754.35             | 1,688.50              | 65.84                   | 26.644            |                    |         |
| 9,200.00                   | 8,831.47            | 9,121.67            | 8,817.44            | 33.34           | 33.15       | -89.50                | 2,771.79                          | 178.87     | 1,757.82             | 1,691.33              | 66.49                   | 26.438            |                    |         |
| 9,250.00                   | 8,834.84            | 9,236.36            | 8,838.02            | 33.60           | 33.71       | -89.75                | 2,776.44                          | 291.42     | 1,759.54             | 1,692.25              | 67.29                   | 26.147            |                    |         |
| 9,263.62                   | 8,835.00            | 9,268.17            | 8,839.77            | 33.67           | 33.88       | -89.78                | 2,776.97                          | 323.17     | 1,759.68             | 1,692.14              | 67.54                   | 26.054            |                    |         |
| 9,300.00                   | 8,835.00            | 9,313.89            | 8,840.00            | 33.88           | 34.15       | -89.79                | 2,777.29                          | 368.89     | 1,759.70             | 1,691.68              | 68.02                   | 25.870            |                    |         |
| 9,400.00                   | 8,835.00            | 9,413.89            | 8,840.00            | 34.53           | 34.80       | -89.79                | 2,777.88                          | 468.88     | 1,759.70             | 1,690.36              | 69.34                   | 25.379            |                    |         |
| 9,500.00                   | 8,835.00            | 9,513.89            | 8,840.00            | 35.30           | 35.56       | -89.79                | 2,778.47                          | 568.88     | 1,759.69             | 1,688.83              | 70.87                   | 24.831            |                    |         |
| 9,600.00                   | 8,835.00            | 9,613.89            | 8,840.00            | 36.17           | 36.42       | -89.79                | 2,779.07                          | 668.88     | 1,759.69             | 1,687.10              | 72.59                   | 24.241            |                    |         |
| 9,700.00                   | 8,835.00            | 9,713.89            | 8,840.00            | 37.13           | 37.37       | -89.79                | 2,779.66                          | 768.88     | 1,759.69             | 1,685.18              | 74.50                   | 23.618            |                    |         |
| 9,800.00                   | 8,835.00            | 9,813.89            | 8,840.00            | 38.18           | 38.40       | -89.79                | 2,780.25                          | 868.88     | 1,759.69             | 1,683.10              | 76.59                   | 22.976            |                    |         |
| 9,900.00                   | 8,835.00            | 9,913.89            | 8,840.00            | 39.31           | 39.52       | -89.79                | 2,780.85                          | 968.88     | 1,759.68             | 1,680.86              | 78.83                   | 22.323            |                    |         |
| 10,000.00                  | 8,835.00            | 10,013.89           | 8,840.00            | 40.51           | 40.70       | -89.79                | 2,781.44                          | 1,068.87   | 1,759.68             | 1,678.47              | 81.21                   | 21.667            |                    |         |
| 10,100.00                  | 8,835.00            | 10,113.89           | 8,840.00            | 41.78           | 41.95       | -89.79                | 2,782.04                          | 1,168.87   | 1,759.68             | 1,675.95              | 83.73                   | 21.016            |                    |         |
| 10,200.00                  | 8,835.00            | 10,213.89           | 8,840.00            | 43.10           | 43.26       | -89.79                | 2,782.63                          | 1,268.87   | 1,759.68             | 1,673.31              | 86.37                   | 20.374            |                    |         |
| 10,300.00                  | 8,835.00            | 10,313.89           | 8,840.00            | 44.49           | 44.63       | -89.79                | 2,783.22                          | 1,368.87   | 1,759.67             | 1,670.56              | 89.12                   | 19.746            |                    |         |
| 10,400.00                  | 8,835.00            | 10,413.89           | 8,840.00            | 45.92           | 46.05       | -89.79                | 2,783.82                          | 1,468.87   | 1,759.67             | 1,667.71              | 91.97                   | 19.134            |                    |         |
| 10,500.00                  | 8,835.00            | 10,513.89           | 8,840.00            | 47.39           | 47.51       | -89.79                | 2,784.41                          | 1,568.87   | 1,759.67             | 1,664.77              | 94.90                   | 18.542            |                    |         |
| 10,600.00                  | 8,835.00            | 10,613.89           | 8,840.00            | 48.91           | 49.02       | -89.79                | 2,785.00                          | 1,668.86   | 1,759.67             | 1,661.74              | 97.93                   | 17.969            |                    |         |
| 10,700.00                  | 8,835.00            | 10,713.89           | 8,840.00            | 50.47           | 50.56       | -89.79                | 2,785.60                          | 1,768.86   | 1,759.66             | 1,658.64              | 101.02                  | 17.418            |                    |         |
| 10,800.00                  | 8,835.00            | 10,813.89           | 8,840.00            | 52.06           | 52.14       | -89.79                | 2,786.19                          | 1,868.86   | 1,759.66             | 1,655.47              | 104.19                  | 16.889            |                    |         |
| 10,900.00                  | 8,835.00            | 10,913.89           | 8,840.00            | 53.68           | 53.74       | -89.79                | 2,786.78                          | 1,968.86   | 1,759.66             | 1,652.24              | 107.42                  | 16.381            |                    |         |
| 11,000.00                  | 8,835.00            | 11,013.89           | 8,840.00            | 55.32           | 55.38       | -89.79                | 2,787.38                          | 2,068.86   | 1,759.66             | 1,648.95              | 110.70                  | 15.895            |                    |         |
| 11,100.00                  | 8,835.00            | 11,113.89           | 8,840.00            | 57.00           | 57.05       | -89.79                | 2,787.97                          | 2,168.85   | 1,759.65             | 1,645.61              | 114.04                  | 15.430            |                    |         |
| 11,200.00                  | 8,835.00            | 11,213.89           | 8,840.00            | 58.70           | 58.73       | -89.79                | 2,788.56                          | 2,268.85   | 1,759.65             | 1,642.22              | 117.43                  | 14.985            |                    |         |
| 11,300.00                  | 8,835.00            | 11,313.89           | 8,840.00            | 60.41           | 60.44       | -89.79                | 2,789.16                          | 2,368.85   | 1,759.65             | 1,638.79              | 120.86                  | 14.560            |                    |         |
| 11,400.00                  | 8,835.00            | 11,413.89           | 8,840.00            | 62.15           | 62.17       | -89.79                | 2,789.75                          | 2,468.85   | 1,759.65             | 1,635.32              | 124.33                  | 14.153            |                    |         |
| 11,500.00                  | 8,835.00            | 11,513.89           | 8,840.00            | 63.91           | 63.92       | -89.79                | 2,790.34                          | 2,568.85   | 1,759.64             | 1,631.81              | 127.83                  | 13.765            |                    |         |
| 11,600.00                  | 8,835.00            | 11,613.89           | 8,840.00            | 65.69           | 65.69       | -89.79                | 2,790.94                          | 2,668.85   | 1,759.64             | 1,628.27              | 131.37                  | 13.394            |                    |         |
| 11,700.00                  | 8,835.00            | 11,713.89           | 8,840.00            | 67.47           | 67.47       | -89.79                | 2,791.53                          | 2,768.84   | 1,759.64             | 1,624.69              | 134.95                  | 13.040            |                    |         |
| 11,800.00                  | 8,835.00            | 11,813.89           | 8,840.00            | 69.28           | 69.27       | -89.79                | 2,792.12                          | 2,868.84   | 1,759.64             | 1,621.09              | 138.55                  | 12.701            |                    |         |
| 11,900.00                  | 8,835.00            | 11,913.89           | 8,840.00            | 71.09           | 71.08       | -89.79                | 2,792.72                          | 2,968.84   | 1,759.63             | 1,617.46              | 142.17                  | 12.377            |                    |         |
| 12,000.00                  | 8,835.00            | 12,013.89           | 8,840.00            | 72.92           | 72.90       | -89.79                | 2,793.31                          | 3,068.84   | 1,759.63             | 1,613.81              | 145.83                  | 12.067            |                    |         |
| 12,100.00                  | 8,835.00            | 12,113.89           | 8,840.00            | 74.76           | 74.73       | -89.79                | 2,793.90                          | 3,168.84   | 1,759.63             | 1,610.13              | 149.50                  | 11.770            |                    |         |
| 12,200.00                  | 8,835.00            | 12,213.89           | 8,840.00            | 76.61           | 76.58       | -89.79                | 2,794.50                          | 3,268.84   | 1,759.63             | 1,606.43              | 153.20                  | 11.486            |                    |         |
| 12,300.00                  | 8,835.00            | 12,313.89           | 8,840.00            | 78.47           | 78.43       | -89.79                | 2,795.09                          | 3,368.83   | 1,759.62             | 1,602.71              | 156.91                  | 11.214            |                    |         |
| 12,400.00                  | 8,835.00            | 12,413.89           | 8,840.00            | 80.34           | 80.30       | -89.79                | 2,795.68                          | 3,468.83   | 1,759.62             | 1,598.98              | 160.65                  | 10.953            |                    |         |
| 12,500.00                  | 8,835.00            | 12,513.89           | 8,840.00            | 82.22           | 82.17       | -89.79                | 2,796.28                          | 3,568.83   | 1,759.62             | 1,595.22              | 164.40                  | 10.704            |                    |         |
| 12,600.00                  | 8,835.00            | 12,613.89           | 8,840.00            | 84.11           | 84.05       | -89.79                | 2,796.87                          | 3,668.83   | 1,759.62             | 1,591.45              | 168.16                  | 10.464            |                    |         |
| 12,700.00                  | 8,835.00            | 12,713.89           | 8,840.00            | 86.00           | 85.94       | -89.79                | 2,797.46                          | 3,768.83   | 1,759.61             | 1,587.67              | 171.94                  | 10.234            |                    |         |
| 12,800.00                  | 8,835.00            | 12,813.89           | 8,840.00            | 87.90           | 87.84       | -89.79                | 2,798.06                          | 3,868.83   | 1,759.61             | 1,583.87              | 175.74                  | 10.013            |                    |         |
| 12,900.00                  | 8,835.00            | 12,913.89           | 8,840.00            | 89.81           | 89.74       | -89.79                | 2,798.65                          | 3,968.82   | 1,759.61             | 1,580.06              | 179.55                  | 9.800             |                    |         |
| 13,000.00                  | 8,835.00            | 13,013.89           | 8,840.00            | 91.72           | 91.65       | -89.79                | 2,799.24                          | 4,068.82   | 1,759.61             | 1,576.24              | 183.37                  | 9.596             |                    |         |
| 13,100.00                  | 8,835.00            | 13,113.89           | 8,840.00            | 93.64           | 93.56       | -89.79                | 2,799.84                          | 4,168.82   | 1,759.60             | 1,572.40              | 187.20                  | 9.399             |                    |         |
| 13,200.00                  | 8,835.00            | 13,213.89           | 8,840.00            | 95.56           | 95.48       | -89.79                | 2,800.43                          | 4,268.82   | 1,759.60             | 1,568.56              | 191.05                  | 9.210             |                    |         |
| 13,300.00                  | 8,835.00            | 13,313.89           | 8,840.00            | 97.49           | 97.41       | -89.79                | 2,801.02                          | 4,368.82   | 1,759.60             | 1,564.70              | 194.90                  | 9.028             |                    |         |
| 13,400.00                  | 8,835.00            | 13,413.89           | 8,840.00            | 99.42           | 99.33       | -89.79                | 2,801.62                          | 4,468.81   | 1,759.60             | 1,560.83              | 198.76                  | 8.853             |                    |         |
| 13,500.00                  | 8,835.00            | 13,513.89           | 8,840.00            | 101.36          | 101.27      | -89.79                | 2,802.21                          | 4,568.81   | 1,759.59             | 1,556.96              | 202.63                  | 8.684             |                    |         |
| 13,600.00                  | 8,835.00            | 13,613.89           | 8,840.00            | 103.30          | 103.21      | -89.79                | 2,802.80                          | 4,668.81   | 1,759.59             | 1,553.08              | 206.51                  | 8.520             |                    |         |
| 13,700.00                  | 8,835.00            | 13,713.89           | 8,840.00            | 105.25          | 105.15      | -89.79                | 2,803.40                          | 4,768.81   | 1,759.59             | 1,549.19              | 210.40                  | 8.363             |                    |         |
| 13,800.00                  | 8,835.00            | 13,813.89           | 8,840.00            | 107.20          | 107.10      | -89.79                | 2,803.99                          | 4,868.81   | 1,759.59             | 1,545.29              | 214.30                  | 8.211             |                    |         |
| 13,900.00                  | 8,835.00            | 13,913.89           | 8,840.00            | 109.15          | 109.05      | -89.79                | 2,804.58                          | 4,968.81   | 1,759.58             | 1,541.38              | 218.20                  | 8.064             |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 331H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|-----------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1                                                                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                                                                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                                                                                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 14,000.00                                                                                                 | 8,835.00            | 14,013.89           | 8,840.00            | 111.10          | 111.00      | -89.79                | 2,805.18                          | 5,068.80   | 1,759.58             | 1,537.47              | 222.11                  | 7.922             |                    |         |
| 14,100.00                                                                                                 | 8,835.00            | 14,113.89           | 8,840.00            | 113.06          | 112.96      | -89.79                | 2,805.77                          | 5,168.80   | 1,759.58             | 1,533.55              | 226.03                  | 7.785             |                    |         |
| 14,200.00                                                                                                 | 8,835.00            | 14,213.89           | 8,840.00            | 115.03          | 114.92      | -89.79                | 2,806.36                          | 5,268.80   | 1,759.58             | 1,529.62              | 229.95                  | 7.652             |                    |         |
| 14,300.00                                                                                                 | 8,835.00            | 14,313.89           | 8,840.00            | 116.99          | 116.88      | -89.79                | 2,806.96                          | 5,368.80   | 1,759.57             | 1,525.69              | 233.88                  | 7.523             |                    |         |
| 14,400.00                                                                                                 | 8,835.00            | 14,413.89           | 8,840.00            | 118.96          | 118.85      | -89.79                | 2,807.55                          | 5,468.80   | 1,759.57             | 1,521.76              | 237.81                  | 7.399             |                    |         |
| 14,500.00                                                                                                 | 8,835.00            | 14,513.89           | 8,840.00            | 120.93          | 120.81      | -89.79                | 2,808.14                          | 5,568.80   | 1,759.57             | 1,517.82              | 241.75                  | 7.278             |                    |         |
| 14,600.00                                                                                                 | 8,835.00            | 14,613.89           | 8,840.00            | 122.90          | 122.79      | -89.79                | 2,808.74                          | 5,668.79   | 1,759.57             | 1,513.87              | 245.70                  | 7.162             |                    |         |
| 14,700.00                                                                                                 | 8,835.00            | 14,713.89           | 8,840.00            | 124.88          | 124.76      | -89.79                | 2,809.33                          | 5,768.79   | 1,759.56             | 1,509.92              | 249.65                  | 7.048             |                    |         |
| 14,800.00                                                                                                 | 8,835.00            | 14,813.89           | 8,840.00            | 126.86          | 126.73      | -89.79                | 2,809.93                          | 5,868.79   | 1,759.56             | 1,505.96              | 253.60                  | 6.938             |                    |         |
| 14,900.00                                                                                                 | 8,835.00            | 14,913.89           | 8,840.00            | 128.84          | 128.71      | -89.79                | 2,810.52                          | 5,968.79   | 1,759.56             | 1,502.00              | 257.56                  | 6.832             |                    |         |
| 15,000.00                                                                                                 | 8,835.00            | 15,013.89           | 8,840.00            | 130.82          | 130.69      | -89.79                | 2,811.11                          | 6,068.79   | 1,759.56             | 1,498.04              | 261.52                  | 6.728             |                    |         |
| 15,100.00                                                                                                 | 8,835.00            | 15,113.89           | 8,840.00            | 132.80          | 132.67      | -89.79                | 2,811.71                          | 6,168.78   | 1,759.55             | 1,494.07              | 265.49                  | 6.628             |                    |         |
| 15,200.00                                                                                                 | 8,835.00            | 15,213.89           | 8,840.00            | 134.79          | 134.66      | -89.79                | 2,812.30                          | 6,268.78   | 1,759.55             | 1,490.09              | 269.46                  | 6.530             |                    |         |
| 15,300.00                                                                                                 | 8,835.00            | 15,313.89           | 8,840.00            | 136.78          | 136.64      | -89.79                | 2,812.89                          | 6,368.78   | 1,759.55             | 1,486.12              | 273.43                  | 6.435             |                    |         |
| 15,400.00                                                                                                 | 8,835.00            | 15,413.89           | 8,840.00            | 138.76          | 138.63      | -89.79                | 2,813.49                          | 6,468.78   | 1,759.55             | 1,482.14              | 277.41                  | 6.343             |                    |         |
| 15,500.00                                                                                                 | 8,835.00            | 15,513.89           | 8,840.00            | 140.76          | 140.62      | -89.79                | 2,814.08                          | 6,568.78   | 1,759.54             | 1,478.16              | 281.39                  | 6.253             |                    |         |
| 15,600.00                                                                                                 | 8,835.00            | 15,613.89           | 8,840.00            | 142.75          | 142.61      | -89.79                | 2,814.67                          | 6,668.78   | 1,759.54             | 1,474.17              | 285.37                  | 6.166             |                    |         |
| 15,700.00                                                                                                 | 8,835.00            | 15,713.89           | 8,840.00            | 144.74          | 144.60      | -89.79                | 2,815.27                          | 6,768.77   | 1,759.54             | 1,470.18              | 289.36                  | 6.081             |                    |         |
| 15,800.00                                                                                                 | 8,835.00            | 15,813.89           | 8,840.00            | 146.74          | 146.60      | -89.79                | 2,815.86                          | 6,868.77   | 1,759.54             | 1,466.19              | 293.35                  | 5.998             |                    |         |
| 15,900.00                                                                                                 | 8,835.00            | 15,913.89           | 8,840.00            | 148.73          | 148.59      | -89.79                | 2,816.45                          | 6,968.77   | 1,759.53             | 1,462.20              | 297.34                  | 5.918             |                    |         |
| 16,000.00                                                                                                 | 8,835.00            | 16,013.89           | 8,840.00            | 150.73          | 150.59      | -89.79                | 2,817.05                          | 7,068.77   | 1,759.53             | 1,458.20              | 301.33                  | 5.839             |                    |         |
| 16,100.00                                                                                                 | 8,835.00            | 16,113.89           | 8,840.00            | 152.73          | 152.59      | -89.79                | 2,817.64                          | 7,168.77   | 1,759.53             | 1,454.20              | 305.33                  | 5.763             |                    |         |
| 16,200.00                                                                                                 | 8,835.00            | 16,213.89           | 8,840.00            | 154.73          | 154.59      | -89.79                | 2,818.23                          | 7,268.77   | 1,759.53             | 1,450.20              | 309.33                  | 5.688             |                    |         |
| 16,300.00                                                                                                 | 8,835.00            | 16,313.89           | 8,840.00            | 156.73          | 156.59      | -89.79                | 2,818.83                          | 7,368.76   | 1,759.52             | 1,446.19              | 313.33                  | 5.615             |                    |         |
| 16,400.00                                                                                                 | 8,835.00            | 16,413.89           | 8,840.00            | 158.74          | 158.59      | -89.79                | 2,819.42                          | 7,468.76   | 1,759.52             | 1,442.18              | 317.34                  | 5.545             |                    |         |
| 16,500.00                                                                                                 | 8,835.00            | 16,513.89           | 8,840.00            | 160.74          | 160.59      | -89.79                | 2,820.01                          | 7,568.76   | 1,759.52             | 1,438.17              | 321.35                  | 5.475             |                    |         |
| 16,600.00                                                                                                 | 8,835.00            | 16,613.89           | 8,840.00            | 162.74          | 162.60      | -89.79                | 2,820.61                          | 7,668.76   | 1,759.52             | 1,434.16              | 325.35                  | 5.408             |                    |         |
| 16,700.00                                                                                                 | 8,835.00            | 16,713.89           | 8,840.00            | 164.75          | 164.60      | -89.79                | 2,821.20                          | 7,768.76   | 1,759.51             | 1,430.15              | 329.37                  | 5.342             |                    |         |
| 16,800.00                                                                                                 | 8,835.00            | 16,813.89           | 8,840.00            | 166.76          | 166.61      | -89.79                | 2,821.79                          | 7,868.75   | 1,759.51             | 1,426.13              | 333.38                  | 5.278             |                    |         |
| 16,900.00                                                                                                 | 8,835.00            | 16,913.89           | 8,840.00            | 168.77          | 168.61      | -89.79                | 2,822.39                          | 7,968.75   | 1,759.51             | 1,422.12              | 337.39                  | 5.215             |                    |         |
| 17,000.00                                                                                                 | 8,835.00            | 17,013.89           | 8,840.00            | 170.77          | 170.62      | -89.79                | 2,822.98                          | 8,068.75   | 1,759.51             | 1,418.10              | 341.41                  | 5.154             |                    |         |
| 17,100.00                                                                                                 | 8,835.00            | 17,113.89           | 8,840.00            | 172.78          | 172.63      | -89.79                | 2,823.57                          | 8,168.75   | 1,759.50             | 1,414.08              | 345.43                  | 5.094             |                    |         |
| 17,200.00                                                                                                 | 8,835.00            | 17,213.89           | 8,840.00            | 174.79          | 174.64      | -89.79                | 2,824.17                          | 8,268.75   | 1,759.50             | 1,410.05              | 349.45                  | 5.035             |                    |         |
| 17,300.00                                                                                                 | 8,835.00            | 17,313.89           | 8,840.00            | 176.81          | 176.65      | -89.79                | 2,824.76                          | 8,368.75   | 1,759.50             | 1,406.03              | 353.47                  | 4.978 Alert       |                    |         |
| 17,400.00                                                                                                 | 8,835.00            | 17,413.89           | 8,840.00            | 178.82          | 178.66      | -89.79                | 2,825.35                          | 8,468.74   | 1,759.50             | 1,402.00              | 357.49                  | 4.922 Alert       |                    |         |
| 17,500.00                                                                                                 | 8,835.00            | 17,513.89           | 8,840.00            | 180.83          | 180.67      | -89.79                | 2,825.95                          | 8,568.74   | 1,759.49             | 1,397.97              | 361.52                  | 4.867 Alert       |                    |         |
| 17,600.00                                                                                                 | 8,835.00            | 17,613.89           | 8,840.00            | 182.84          | 182.69      | -89.79                | 2,826.54                          | 8,668.74   | 1,759.49             | 1,393.95              | 365.55                  | 4.813 Alert       |                    |         |
| 17,700.00                                                                                                 | 8,835.00            | 17,713.89           | 8,840.00            | 184.86          | 184.70      | -89.79                | 2,827.13                          | 8,768.74   | 1,759.49             | 1,389.91              | 369.57                  | 4.761 Alert       |                    |         |
| 17,800.00                                                                                                 | 8,835.00            | 17,813.89           | 8,840.00            | 186.87          | 186.71      | -89.79                | 2,827.73                          | 8,868.74   | 1,759.49             | 1,385.88              | 373.60                  | 4.710 Alert       |                    |         |
| 17,900.00                                                                                                 | 8,835.00            | 17,913.89           | 8,840.00            | 188.89          | 188.73      | -89.79                | 2,828.32                          | 8,968.74   | 1,759.48             | 1,381.85              | 377.63                  | 4.659 Alert       |                    |         |
| 18,000.00                                                                                                 | 8,835.00            | 18,013.89           | 8,840.00            | 190.91          | 190.75      | -89.79                | 2,828.91                          | 9,068.73   | 1,759.48             | 1,377.81              | 381.67                  | 4.610 Alert       |                    |         |
| 18,100.00                                                                                                 | 8,835.00            | 18,113.89           | 8,840.00            | 192.92          | 192.76      | -89.79                | 2,829.51                          | 9,168.73   | 1,759.48             | 1,373.78              | 385.70                  | 4.562 Alert       |                    |         |
| 18,200.00                                                                                                 | 8,835.00            | 18,213.89           | 8,840.00            | 194.94          | 194.78      | -89.79                | 2,830.10                          | 9,268.73   | 1,759.48             | 1,369.74              | 389.73                  | 4.515 Alert       |                    |         |
| 18,300.00                                                                                                 | 8,835.00            | 18,313.89           | 8,840.00            | 196.96          | 196.80      | -89.79                | 2,830.69                          | 9,368.73   | 1,759.47             | 1,365.70              | 393.77                  | 4.468 Alert       |                    |         |
| 18,400.00                                                                                                 | 8,835.00            | 18,413.89           | 8,840.00            | 198.98          | 198.81      | -89.79                | 2,831.29                          | 9,468.73   | 1,759.47             | 1,361.66              | 397.81                  | 4.423 Alert       |                    |         |
| 18,500.00                                                                                                 | 8,835.00            | 18,513.89           | 8,840.00            | 201.00          | 200.83      | -89.79                | 2,831.88                          | 9,568.72   | 1,759.47             | 1,357.62              | 401.85                  | 4.378 Alert       |                    |         |
| 18,600.00                                                                                                 | 8,835.00            | 18,613.89           | 8,840.00            | 203.02          | 202.85      | -89.79                | 2,832.47                          | 9,668.72   | 1,759.47             | 1,353.58              | 405.88                  | 4.335 Alert       |                    |         |
| 18,700.00                                                                                                 | 8,835.00            | 18,713.89           | 8,840.00            | 205.04          | 204.87      | -89.79                | 2,833.07                          | 9,768.72   | 1,759.46             | 1,349.54              | 409.92                  | 4.292 Alert       |                    |         |
| 18,800.00                                                                                                 | 8,835.00            | 18,813.89           | 8,840.00            | 207.06          | 206.89      | -89.79                | 2,833.66                          | 9,868.72   | 1,759.46             | 1,345.50              | 413.97                  | 4.250 Alert       |                    |         |
| 18,900.00                                                                                                 | 8,835.00            | 18,913.89           | 8,840.00            | 209.08          | 208.91      | -89.79                | 2,834.25                          | 9,968.72   | 1,759.46             | 1,341.45              | 418.01                  | 4.209 Alert       |                    |         |
| 19,000.00                                                                                                 | 8,835.00            | 19,013.89           | 8,840.00            | 211.10          | 210.93      | -89.79                | 2,834.85                          | 10,068.72  | 1,759.46             | 1,337.40              | 422.05                  | 4.169 Alert       |                    |         |
| 19,100.00                                                                                                 | 8,835.00            | 19,113.89           | 8,840.00            | 213.12          | 212.96      | -89.79                | 2,835.44                          | 10,168.71  | 1,759.45             | 1,333.36              | 426.10                  | 4.129 Alert       |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 331H - Wellbore #1 - Permit Plan 1 |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 0.00 ft       |
|-----------------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|---------------|
| Survey Program: 0-MWD+IFR1                                                                                |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 0.50 ft       |
| Reference                                                                                                 |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                           | Warning       |
| Measured Depth<br>(ft)                                                                                    | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |               |
| 19,200.00                                                                                                 | 8,835.00               | 19,213.89              | 8,840.00               | 215.15            | 214.98         | -89.79                      | 2,836.04                                | 10,268.71     | 1,759.45                   | 1,329.31                    | 430.14                        | 4.090                     | Alert         |
| 19,308.27                                                                                                 | 8,835.00               | 19,322.16              | 8,840.00               | 217.34            | 217.17         | -89.79                      | 2,836.68                                | 10,376.98     | 1,759.45                   | 1,324.93                    | 434.52                        | 4.049                     | Alert, ES, SF |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                       | 0.00                | 10.20               | 10.20               | 0.50            | 0.50        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             |                       |                         |                   |                    |         |
| 100.00                     | 100.00              | 110.20              | 110.20              | 0.52            | 0.53        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,497.65              | 1.05                    | 1,432.535         |                    |         |
| 200.00                     | 200.00              | 210.20              | 210.20              | 0.70            | 0.73        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,497.27              | 1.43                    | 1,047.790         |                    |         |
| 300.00                     | 300.00              | 310.20              | 310.20              | 0.99            | 1.02        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,496.69              | 2.01                    | 746.970           |                    |         |
| 400.00                     | 400.00              | 410.20              | 410.20              | 1.31            | 1.34        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,496.04              | 2.65                    | 565.110           |                    |         |
| 500.00                     | 500.00              | 510.20              | 510.20              | 1.65            | 1.68        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,495.37              | 3.33                    | 450.458           |                    |         |
| 600.00                     | 600.00              | 610.20              | 610.20              | 1.99            | 2.03        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,494.68              | 4.02                    | 373.124           |                    |         |
| 700.00                     | 700.00              | 710.20              | 710.20              | 2.34            | 2.38        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,493.98              | 4.71                    | 317.900           |                    |         |
| 800.00                     | 800.00              | 810.20              | 810.20              | 2.69            | 2.73        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,493.28              | 5.42                    | 276.659           |                    |         |
| 900.00                     | 900.00              | 910.20              | 910.20              | 3.04            | 3.08        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,492.57              | 6.12                    | 244.758           |                    |         |
| 1,000.00                   | 1,000.00            | 1,010.20            | 1,010.20            | 3.40            | 3.43        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,491.87              | 6.83                    | 219.380           |                    |         |
| 1,100.00                   | 1,100.00            | 1,110.20            | 1,110.20            | 3.75            | 3.79        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,491.16              | 7.54                    | 198.728           |                    |         |
| 1,200.00                   | 1,200.00            | 1,210.20            | 1,210.20            | 4.11            | 4.14        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,490.44              | 8.25                    | 181.603           |                    |         |
| 1,300.00                   | 1,300.00            | 1,310.20            | 1,310.20            | 4.46            | 4.50        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,489.73              | 8.96                    | 167.178           |                    |         |
| 1,400.00                   | 1,400.00            | 1,410.20            | 1,410.20            | 4.82            | 4.86        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,489.02              | 9.68                    | 154.864           |                    |         |
| 1,500.00                   | 1,500.00            | 1,510.20            | 1,510.20            | 5.18            | 5.21        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,488.31              | 10.39                   | 144.232           |                    |         |
| 1,600.00                   | 1,600.00            | 1,610.20            | 1,610.20            | 5.53            | 5.57        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,487.59              | 11.10                   | 134.961           |                    |         |
| 1,700.00                   | 1,700.00            | 1,710.20            | 1,710.20            | 5.89            | 5.93        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,486.88              | 11.82                   | 126.805           |                    |         |
| 1,800.00                   | 1,800.00            | 1,810.20            | 1,810.20            | 6.25            | 6.28        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,486.16              | 12.53                   | 119.576           |                    |         |
| 1,900.00                   | 1,900.00            | 1,910.20            | 1,910.20            | 6.61            | 6.64        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,485.45              | 13.25                   | 113.125           |                    |         |
| 2,000.00                   | 2,000.00            | 2,010.20            | 2,010.20            | 6.96            | 7.00        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,484.73              | 13.96                   | 107.332           |                    |         |
| 2,100.00                   | 2,099.99            | 2,110.19            | 2,110.19            | 7.32            | 7.36        | 12.66                 | 1,498.69                          | -3.30      | 1,497.85             | 1,483.17              | 14.68                   | 102.046           |                    |         |
| 2,200.00                   | 2,199.96            | 2,210.16            | 2,210.16            | 7.68            | 7.71        | 12.69                 | 1,498.69                          | -3.30      | 1,495.29             | 1,479.90              | 15.39                   | 97.140            |                    |         |
| 2,300.00                   | 2,299.86            | 2,310.06            | 2,310.06            | 8.04            | 8.07        | 12.74                 | 1,498.69                          | -3.30      | 1,491.04             | 1,474.93              | 16.11                   | 92.565            |                    |         |
| 2,400.00                   | 2,399.68            | 2,409.88            | 2,409.88            | 8.39            | 8.43        | 12.80                 | 1,498.69                          | -3.30      | 1,485.08             | 1,468.26              | 16.82                   | 88.280            |                    |         |
| 2,500.00                   | 2,499.37            | 2,509.57            | 2,509.57            | 8.75            | 8.79        | 12.89                 | 1,498.69                          | -3.30      | 1,477.43             | 1,459.89              | 17.54                   | 84.249            |                    |         |
| 2,600.00                   | 2,598.90            | 2,609.10            | 2,609.10            | 9.11            | 9.14        | 12.99                 | 1,498.69                          | -3.30      | 1,468.09             | 1,449.84              | 18.25                   | 80.443            |                    |         |
| 2,700.00                   | 2,698.26            | 2,708.46            | 2,708.46            | 9.46            | 9.50        | 13.12                 | 1,498.69                          | -3.30      | 1,457.06             | 1,438.09              | 18.96                   | 76.838            |                    |         |
| 2,800.00                   | 2,797.40            | 2,788.31            | 2,788.30            | 9.82            | 9.78        | 13.22                 | 1,499.28                          | -3.64      | 1,445.06             | 1,425.46              | 19.60                   | 73.710            |                    |         |
| 2,900.00                   | 2,896.30            | 2,869.78            | 2,869.75            | 10.18           | 10.07       | 13.33                 | 1,500.88                          | -4.54      | 1,432.60             | 1,412.35              | 20.25                   | 70.746            |                    |         |
| 3,000.00                   | 2,994.93            | 2,951.35            | 2,951.27            | 10.54           | 10.36       | 13.42                 | 1,503.49                          | -6.02      | 1,419.68             | 1,398.79              | 20.89                   | 67.946            |                    |         |
| 3,100.00                   | 3,093.26            | 3,033.02            | 3,032.83            | 10.90           | 10.65       | 13.51                 | 1,507.11                          | -8.08      | 1,406.30             | 1,384.76              | 21.54                   | 65.295            |                    |         |
| 3,195.07                   | 3,186.42            | 3,110.75            | 3,110.40            | 11.24           | 10.93       | 13.59                 | 1,511.49                          | -10.57     | 1,393.16             | 1,371.01              | 22.15                   | 62.901            |                    |         |
| 3,200.00                   | 3,191.25            | 3,114.79            | 3,114.42            | 11.26           | 10.95       | 13.59                 | 1,511.74                          | -10.71     | 1,392.47             | 1,370.29              | 22.18                   | 62.778            |                    |         |
| 3,300.00                   | 3,289.08            | 3,196.76            | 3,196.14            | 11.62           | 11.24       | 13.62                 | 1,517.41                          | -13.93     | 1,379.10             | 1,356.27              | 22.82                   | 60.427            |                    |         |
| 3,400.00                   | 3,386.91            | 3,284.23            | 3,283.22            | 11.98           | 11.55       | 13.63                 | 1,524.50                          | -17.96     | 1,366.90             | 1,343.41              | 23.49                   | 58.195            |                    |         |
| 3,500.00                   | 3,484.74            | 3,383.52            | 3,382.05            | 12.35           | 11.90       | 13.63                 | 1,532.83                          | -22.69     | 1,354.99             | 1,330.78              | 24.21                   | 55.973            |                    |         |
| 3,600.00                   | 3,582.58            | 3,482.80            | 3,480.87            | 12.72           | 12.26       | 13.63                 | 1,541.16                          | -27.42     | 1,343.08             | 1,318.15              | 24.93                   | 53.876            |                    |         |
| 3,700.00                   | 3,680.41            | 3,582.09            | 3,579.70            | 13.09           | 12.61       | 13.63                 | 1,549.49                          | -32.15     | 1,331.17             | 1,305.52              | 25.65                   | 51.894            |                    |         |
| 3,800.00                   | 3,778.24            | 3,681.38            | 3,678.53            | 13.46           | 12.97       | 13.63                 | 1,557.82                          | -36.88     | 1,319.27             | 1,292.89              | 26.38                   | 50.018            |                    |         |
| 3,900.00                   | 3,876.08            | 3,780.67            | 3,777.35            | 13.83           | 13.32       | 13.63                 | 1,566.15                          | -41.61     | 1,307.36             | 1,280.26              | 27.10                   | 48.239            |                    |         |
| 4,000.00                   | 3,973.91            | 3,879.96            | 3,876.18            | 14.21           | 13.68       | 13.63                 | 1,574.48                          | -46.34     | 1,295.45             | 1,267.62              | 27.83                   | 46.551            |                    |         |
| 4,100.00                   | 4,071.74            | 3,979.25            | 3,975.00            | 14.58           | 14.04       | 13.63                 | 1,582.80                          | -51.07     | 1,283.55             | 1,254.99              | 28.56                   | 44.947            |                    |         |
| 4,200.00                   | 4,169.57            | 4,078.54            | 4,073.83            | 14.96           | 14.39       | 13.63                 | 1,591.13                          | -55.80     | 1,271.64             | 1,242.35              | 29.29                   | 43.421            |                    |         |
| 4,300.00                   | 4,267.41            | 4,177.82            | 4,172.65            | 15.33           | 14.75       | 13.63                 | 1,599.46                          | -60.53     | 1,259.73             | 1,229.72              | 30.02                   | 41.968            |                    |         |
| 4,400.00                   | 4,365.24            | 4,277.11            | 4,271.48            | 15.71           | 15.11       | 13.63                 | 1,607.79                          | -65.26     | 1,247.82             | 1,217.08              | 30.75                   | 40.583            |                    |         |
| 4,500.00                   | 4,463.07            | 4,376.40            | 4,370.30            | 16.09           | 15.47       | 13.63                 | 1,616.12                          | -69.99     | 1,235.92             | 1,204.44              | 31.48                   | 39.261            |                    |         |
| 4,600.00                   | 4,560.90            | 4,475.69            | 4,469.13            | 16.47           | 15.82       | 13.63                 | 1,624.45                          | -74.72     | 1,224.01             | 1,191.80              | 32.21                   | 37.999            |                    |         |
| 4,700.00                   | 4,658.74            | 4,574.98            | 4,567.95            | 16.85           | 16.18       | 13.63                 | 1,632.78                          | -79.45     | 1,212.10             | 1,179.16              | 32.95                   | 36.791            |                    |         |
| 4,800.00                   | 4,756.57            | 4,674.27            | 4,666.78            | 17.23           | 16.54       | 13.64                 | 1,641.11                          | -84.18     | 1,200.20             | 1,166.52              | 33.68                   | 35.636            |                    |         |
| 4,900.00                   | 4,854.40            | 4,773.56            | 4,765.61            | 17.61           | 16.90       | 13.64                 | 1,649.44                          | -88.91     | 1,188.29             | 1,153.87              | 34.41                   | 34.529            |                    |         |
| 5,000.00                   | 4,952.23            | 4,872.84            | 4,864.43            | 17.99           | 17.26       | 13.64                 | 1,657.77                          | -93.64     | 1,176.38             | 1,141.23              | 35.15                   | 33.467            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 332H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | <b>Offset Site Error:</b> | 0.00 ft |
|-----------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|---------------------------|---------|
| Survey Program: 0-MWD+IFR1                                                                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning                   |         |
| Measured Depth (ft)                                                                                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                           |         |
| 5,100.00                                                                                                  | 5,050.07            | 4,972.13            | 4,963.26            | 18.37           | 17.62       | 13.64                 | 1,666.10                          | -98.37     | 1,164.47             | 1,128.59              | 35.89                   | 32.449            |                           |         |
| 5,200.00                                                                                                  | 5,147.90            | 5,071.42            | 5,062.08            | 18.75           | 17.98       | 13.64                 | 1,674.43                          | -103.10    | 1,152.57             | 1,115.94              | 36.62                   | 31.471            |                           |         |
| 5,300.00                                                                                                  | 5,245.73            | 5,170.71            | 5,160.91            | 19.14           | 18.34       | 13.64                 | 1,682.76                          | -107.83    | 1,140.66             | 1,103.30              | 37.36                   | 30.532            |                           |         |
| 5,400.00                                                                                                  | 5,343.56            | 5,270.00            | 5,259.73            | 19.52           | 18.69       | 13.64                 | 1,691.08                          | -112.56    | 1,128.75             | 1,090.66              | 38.10                   | 29.628            |                           |         |
| 5,500.00                                                                                                  | 5,441.40            | 5,369.29            | 5,358.56            | 19.90           | 19.05       | 13.64                 | 1,699.41                          | -117.29    | 1,116.85             | 1,078.01              | 38.84                   | 28.758            |                           |         |
| 5,600.00                                                                                                  | 5,539.23            | 5,468.58            | 5,457.38            | 20.29           | 19.41       | 13.64                 | 1,707.74                          | -122.02    | 1,104.94             | 1,065.36              | 39.57                   | 27.921            |                           |         |
| 5,700.00                                                                                                  | 5,637.06            | 5,567.86            | 5,556.21            | 20.67           | 19.77       | 13.64                 | 1,716.07                          | -126.75    | 1,093.03             | 1,052.72              | 40.31                   | 27.114            |                           |         |
| 5,800.00                                                                                                  | 5,734.90            | 5,667.15            | 5,655.03            | 21.05           | 20.13       | 13.64                 | 1,724.40                          | -131.48    | 1,081.13             | 1,040.07              | 41.05                   | 26.335            |                           |         |
| 5,900.00                                                                                                  | 5,832.73            | 5,766.44            | 5,753.86            | 21.44           | 20.49       | 13.65                 | 1,732.73                          | -136.21    | 1,069.22             | 1,027.43              | 41.79                   | 25.584            |                           |         |
| 6,000.00                                                                                                  | 5,930.56            | 5,865.73            | 5,852.69            | 21.83           | 20.85       | 13.65                 | 1,741.06                          | -140.94    | 1,057.31             | 1,014.78              | 42.53                   | 24.859            |                           |         |
| 6,100.00                                                                                                  | 6,028.39            | 5,965.02            | 5,951.51            | 22.21           | 21.21       | 13.65                 | 1,749.39                          | -145.67    | 1,045.40             | 1,002.13              | 43.27                   | 24.158            |                           |         |
| 6,200.00                                                                                                  | 6,126.23            | 6,064.31            | 6,050.34            | 22.60           | 21.57       | 13.65                 | 1,757.72                          | -150.40    | 1,033.50             | 989.48                | 44.01                   | 23.481            |                           |         |
| 6,300.00                                                                                                  | 6,224.06            | 6,163.60            | 6,149.16            | 22.98           | 21.94       | 13.65                 | 1,766.05                          | -155.13    | 1,021.59             | 976.84                | 44.75                   | 22.827            |                           |         |
| 6,400.00                                                                                                  | 6,321.89            | 6,262.88            | 6,247.99            | 23.37           | 22.30       | 13.65                 | 1,774.38                          | -159.86    | 1,009.68             | 964.19                | 45.50                   | 22.193            |                           |         |
| 6,500.00                                                                                                  | 6,419.72            | 6,362.17            | 6,346.81            | 23.76           | 22.66       | 13.65                 | 1,782.71                          | -164.59    | 997.78               | 951.54                | 46.24                   | 21.579            |                           |         |
| 6,600.00                                                                                                  | 6,517.56            | 6,461.46            | 6,445.64            | 24.14           | 23.02       | 13.65                 | 1,791.03                          | -169.32    | 985.87               | 938.89                | 46.98                   | 20.985            |                           |         |
| 6,700.00                                                                                                  | 6,615.39            | 6,560.75            | 6,544.46            | 24.53           | 23.38       | 13.65                 | 1,799.36                          | -174.05    | 973.96               | 926.24                | 47.72                   | 20.409            |                           |         |
| 6,800.00                                                                                                  | 6,713.22            | 6,660.04            | 6,643.29            | 24.92           | 23.74       | 13.66                 | 1,807.69                          | -178.78    | 962.05               | 913.59                | 48.46                   | 19.851            |                           |         |
| 6,900.00                                                                                                  | 6,811.05            | 6,759.33            | 6,742.11            | 25.30           | 24.10       | 13.66                 | 1,816.02                          | -183.51    | 950.15               | 900.94                | 49.21                   | 19.309            |                           |         |
| 7,000.00                                                                                                  | 6,908.89            | 6,858.62            | 6,840.94            | 25.69           | 24.46       | 13.66                 | 1,824.35                          | -188.24    | 938.24               | 888.29                | 49.95                   | 18.784            |                           |         |
| 7,100.00                                                                                                  | 7,006.72            | 6,957.90            | 6,939.77            | 26.08           | 24.82       | 13.66                 | 1,832.68                          | -192.97    | 926.33               | 875.64                | 50.69                   | 18.274            |                           |         |
| 7,200.00                                                                                                  | 7,104.55            | 7,057.19            | 7,038.59            | 26.47           | 25.18       | 13.66                 | 1,841.01                          | -197.70    | 914.43               | 862.99                | 51.44                   | 17.778            |                           |         |
| 7,216.87                                                                                                  | 7,121.05            | 7,073.94            | 7,055.26            | 26.53           | 25.24       | 13.66                 | 1,842.42                          | -198.50    | 912.42               | 860.86                | 51.56                   | 17.696            |                           |         |
| 7,300.00                                                                                                  | 7,202.57            | 7,156.58            | 7,137.51            | 26.85           | 25.54       | 13.62                 | 1,849.35                          | -202.44    | 903.39               | 851.21                | 52.18                   | 17.314            |                           |         |
| 7,400.00                                                                                                  | 7,301.06            | 7,256.21            | 7,236.68            | 27.23           | 25.91       | 13.54                 | 1,857.71                          | -207.18    | 894.86               | 841.94                | 52.92                   | 16.910            |                           |         |
| 7,500.00                                                                                                  | 7,399.97            | 7,356.02            | 7,336.02            | 27.61           | 26.27       | 13.42                 | 1,866.08                          | -211.94    | 888.86               | 835.20                | 53.65                   | 16.567            |                           |         |
| 7,600.00                                                                                                  | 7,499.23            | 7,455.93            | 7,435.47            | 27.98           | 26.63       | 13.28                 | 1,874.46                          | -216.70    | 885.41               | 831.02                | 54.38                   | 16.280            |                           |         |
| 7,685.06                                                                                                  | 7,583.89            | 7,540.96            | 7,520.10            | 28.29           | 26.94       | 13.13                 | 1,881.59                          | -220.75    | 884.48               | 829.48                | 55.00                   | 16.081 CC         |                           |         |
| 7,700.00                                                                                                  | 7,598.77            | 7,555.89            | 7,534.96            | 28.34           | 27.00       | 13.10                 | 1,882.85                          | -221.46    | 884.51               | 829.40                | 55.11                   | 16.050            |                           |         |
| 7,800.00                                                                                                  | 7,698.53            | 7,664.94            | 7,643.52            | 28.70           | 27.39       | 12.89                 | 1,891.76                          | -226.52    | 885.99               | 830.13                | 55.86                   | 15.861            |                           |         |
| 7,900.00                                                                                                  | 7,798.44            | 7,790.19            | 7,768.48            | 29.05           | 27.85       | 12.70                 | 1,899.20                          | -230.75    | 887.76               | 831.14                | 56.62                   | 15.679            |                           |         |
| 8,000.00                                                                                                  | 7,898.42            | 7,915.57            | 7,893.77            | 29.39           | 28.30       | 12.59                 | 1,903.08                          | -232.95    | 889.24               | 831.89                | 57.34                   | 15.508            |                           |         |
| 8,013.58                                                                                                  | 7,912.00            | 7,932.60            | 7,910.80            | 29.43           | 28.36       | -0.20                 | 1,903.33                          | -233.10    | 889.41               | 831.98                | 57.43                   | 15.486            |                           |         |
| 8,100.00                                                                                                  | 7,998.42            | 8,030.42            | 8,008.62            | 29.73           | 28.70       | -0.21                 | 1,903.69                          | -233.30    | 889.70               | 831.67                | 58.03                   | 15.332            |                           |         |
| 8,200.00                                                                                                  | 8,098.42            | 8,130.42            | 8,108.62            | 30.07           | 29.06       | -0.21                 | 1,903.69                          | -233.30    | 889.70               | 830.97                | 58.73                   | 15.150            |                           |         |
| 8,300.00                                                                                                  | 8,198.42            | 8,230.42            | 8,208.62            | 30.41           | 29.41       | -0.21                 | 1,903.69                          | -233.30    | 889.70               | 830.27                | 59.42                   | 14.972            |                           |         |
| 8,363.62                                                                                                  | 8,262.04            | 8,294.04            | 8,272.24            | 30.62           | 29.64       | -0.21                 | 1,903.69                          | -233.30    | 889.70               | 829.83                | 59.87                   | 14.861            |                           |         |
| 8,400.00                                                                                                  | 8,298.40            | 8,330.40            | 8,308.60            | 30.75           | 29.77       | -89.95                | 1,903.69                          | -233.30    | 889.70               | 829.58                | 60.12                   | 14.799            |                           |         |
| 8,411.53                                                                                                  | 8,309.89            | 8,341.89            | 8,320.09            | 30.78           | 29.81       | -90.00                | 1,903.69                          | -233.30    | 889.70               | 829.50                | 60.20                   | 14.780            |                           |         |
| 8,450.00                                                                                                  | 8,348.10            | 8,380.35            | 8,358.51            | 30.91           | 29.94       | -90.19                | 1,903.70                          | -231.80    | 889.70               | 829.25                | 60.45                   | 14.719            |                           |         |
| 8,500.00                                                                                                  | 8,397.14            | 8,430.63            | 8,408.44            | 31.07           | 30.10       | -90.44                | 1,903.74                          | -225.96    | 889.72               | 828.95                | 60.77                   | 14.641            |                           |         |
| 8,550.00                                                                                                  | 8,445.15            | 8,481.26            | 8,458.00            | 31.23           | 30.27       | -90.69                | 1,903.80                          | -215.69    | 889.76               | 828.68                | 61.09                   | 14.566            |                           |         |
| 8,600.00                                                                                                  | 8,491.77            | 8,532.25            | 8,506.79            | 31.38           | 30.44       | -90.93                | 1,903.89                          | -200.97    | 889.82               | 828.42                | 61.40                   | 14.493            |                           |         |
| 8,650.00                                                                                                  | 8,536.65            | 8,583.58            | 8,554.40            | 31.52           | 30.60       | -91.17                | 1,904.00                          | -181.82    | 889.88               | 828.18                | 61.70                   | 14.423            |                           |         |
| 8,700.00                                                                                                  | 8,579.43            | 8,635.26            | 8,600.41            | 31.66           | 30.77       | -91.40                | 1,904.14                          | -158.32    | 889.96               | 827.97                | 62.00                   | 14.355            |                           |         |
| 8,750.00                                                                                                  | 8,619.80            | 8,687.28            | 8,644.39            | 31.80           | 30.93       | -91.62                | 1,904.31                          | -130.58    | 890.05               | 827.76                | 62.29                   | 14.288            |                           |         |
| 8,800.00                                                                                                  | 8,657.44            | 8,739.63            | 8,685.93            | 31.93           | 31.09       | -91.83                | 1,904.50                          | -98.75     | 890.15               | 827.56                | 62.59                   | 14.222            |                           |         |
| 8,850.00                                                                                                  | 8,692.08            | 8,792.29            | 8,724.61            | 32.06           | 31.26       | -92.02                | 1,904.71                          | -63.04     | 890.25               | 827.36                | 62.89                   | 14.155            |                           |         |
| 8,900.00                                                                                                  | 8,723.44            | 8,845.24            | 8,760.04            | 32.19           | 31.43       | -92.20                | 1,904.94                          | -23.71     | 890.35               | 827.15                | 63.21                   | 14.086            |                           |         |
| 8,950.00                                                                                                  | 8,751.29            | 8,898.47            | 8,791.84            | 32.34           | 31.62       | -92.35                | 1,905.20                          | 18.95      | 890.45               | 826.91                | 63.54                   | 14.013            |                           |         |
| 9,000.00                                                                                                  | 8,775.42            | 8,951.95            | 8,819.66            | 32.50           | 31.81       | -92.50                | 1,905.47                          | 64.60      | 890.55               | 826.64                | 63.91                   | 13.935            |                           |         |
| 9,050.00                                                                                                  | 8,795.64            | 9,005.64            | 8,843.19            | 32.67           | 32.03       | -92.62                | 1,905.76                          | 112.83     | 890.63               | 826.32                | 64.31                   | 13.849            |                           |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,100.00                   | 8,811.80            | 9,059.51            | 8,862.16            | 32.87           | 32.27       | -92.72                | 1,906.06                          | 163.24     | 890.70               | 825.95                | 64.75                   | 13.756            |                    |         |
| 9,150.00                   | 8,823.77            | 9,113.54            | 8,876.35            | 33.10           | 32.53       | -92.79                | 1,906.37                          | 215.35     | 890.76               | 825.52                | 65.24                   | 13.654            |                    |         |
| 9,200.00                   | 8,831.47            | 9,167.68            | 8,885.59            | 33.34           | 32.80       | -92.85                | 1,906.69                          | 268.67     | 890.80               | 825.04                | 65.76                   | 13.546            |                    |         |
| 9,250.00                   | 8,834.84            | 9,221.89            | 8,889.75            | 33.60           | 33.10       | -92.88                | 1,907.01                          | 322.70     | 890.83               | 824.50                | 66.33                   | 13.431            |                    |         |
| 9,263.62                   | 8,835.00            | 9,236.66            | 8,889.99            | 33.67           | 33.18       | -92.88                | 1,907.10                          | 337.47     | 890.83               | 824.34                | 66.49                   | 13.399            |                    |         |
| 9,300.00                   | 8,835.00            | 9,273.21            | 8,890.00            | 33.88           | 33.40       | -92.88                | 1,907.32                          | 374.02     | 890.83               | 823.91                | 66.92                   | 13.312            |                    |         |
| 9,400.00                   | 8,835.00            | 9,373.21            | 8,890.00            | 34.53           | 34.08       | -92.88                | 1,907.91                          | 474.02     | 890.83               | 822.58                | 68.25                   | 13.052            |                    |         |
| 9,500.00                   | 8,835.00            | 9,473.21            | 8,890.00            | 35.30           | 34.85       | -92.88                | 1,908.51                          | 574.02     | 890.83               | 821.04                | 69.79                   | 12.764            |                    |         |
| 9,600.00                   | 8,835.00            | 9,573.21            | 8,890.00            | 36.17           | 35.73       | -92.88                | 1,909.11                          | 674.01     | 890.83               | 819.29                | 71.54                   | 12.453            |                    |         |
| 9,700.00                   | 8,835.00            | 9,673.21            | 8,890.00            | 37.13           | 36.70       | -92.88                | 1,909.71                          | 774.01     | 890.83               | 817.37                | 73.47                   | 12.125            |                    |         |
| 9,800.00                   | 8,835.00            | 9,773.21            | 8,890.00            | 38.18           | 37.76       | -92.88                | 1,910.30                          | 874.01     | 890.83               | 815.26                | 75.57                   | 11.788            |                    |         |
| 9,900.00                   | 8,835.00            | 9,873.21            | 8,890.00            | 39.31           | 38.90       | -92.88                | 1,910.90                          | 974.01     | 890.84               | 813.01                | 77.83                   | 11.446            |                    |         |
| 10,000.00                  | 8,835.00            | 9,973.21            | 8,890.00            | 40.51           | 40.10       | -92.88                | 1,911.50                          | 1,074.01   | 890.84               | 810.60                | 80.23                   | 11.103            |                    |         |
| 10,100.00                  | 8,835.00            | 10,073.21           | 8,890.00            | 41.78           | 41.38       | -92.88                | 1,912.09                          | 1,174.00   | 890.84               | 808.07                | 82.77                   | 10.763            |                    |         |
| 10,200.00                  | 8,835.00            | 10,173.21           | 8,890.00            | 43.10           | 42.71       | -92.88                | 1,912.69                          | 1,274.00   | 890.84               | 805.41                | 85.43                   | 10.428            |                    |         |
| 10,300.00                  | 8,835.00            | 10,273.21           | 8,890.00            | 44.49           | 44.10       | -92.88                | 1,913.29                          | 1,374.00   | 890.84               | 802.64                | 88.19                   | 10.101            |                    |         |
| 10,400.00                  | 8,835.00            | 10,373.21           | 8,890.00            | 45.92           | 45.54       | -92.88                | 1,913.88                          | 1,474.00   | 890.84               | 799.78                | 91.06                   | 9.783             |                    |         |
| 10,500.00                  | 8,835.00            | 10,473.21           | 8,890.00            | 47.39           | 47.02       | -92.88                | 1,914.48                          | 1,574.00   | 890.84               | 796.82                | 94.02                   | 9.475             |                    |         |
| 10,600.00                  | 8,835.00            | 10,573.21           | 8,890.00            | 48.91           | 48.55       | -92.88                | 1,915.08                          | 1,674.00   | 890.84               | 793.79                | 97.06                   | 9.179             |                    |         |
| 10,700.00                  | 8,835.00            | 10,673.21           | 8,890.00            | 50.47           | 50.11       | -92.88                | 1,915.67                          | 1,773.99   | 890.84               | 790.67                | 100.17                  | 8.893             |                    |         |
| 10,800.00                  | 8,835.00            | 10,773.21           | 8,890.00            | 52.06           | 51.71       | -92.88                | 1,916.27                          | 1,873.99   | 890.84               | 787.49                | 103.35                  | 8.620             |                    |         |
| 10,900.00                  | 8,835.00            | 10,873.21           | 8,890.00            | 53.68           | 53.33       | -92.88                | 1,916.87                          | 1,973.99   | 890.84               | 784.25                | 106.59                  | 8.357             |                    |         |
| 11,000.00                  | 8,835.00            | 10,973.21           | 8,890.00            | 55.32           | 54.99       | -92.88                | 1,917.46                          | 2,073.99   | 890.85               | 780.95                | 109.89                  | 8.107             |                    |         |
| 11,100.00                  | 8,835.00            | 11,073.21           | 8,890.00            | 57.00           | 56.67       | -92.88                | 1,918.06                          | 2,173.99   | 890.85               | 777.60                | 113.24                  | 7.867             |                    |         |
| 11,200.00                  | 8,835.00            | 11,173.21           | 8,890.00            | 58.70           | 58.37       | -92.88                | 1,918.66                          | 2,273.98   | 890.85               | 774.21                | 116.64                  | 7.638             |                    |         |
| 11,300.00                  | 8,835.00            | 11,273.21           | 8,890.00            | 60.41           | 60.10       | -92.88                | 1,919.25                          | 2,373.98   | 890.85               | 770.77                | 120.08                  | 7.419             |                    |         |
| 11,400.00                  | 8,835.00            | 11,373.21           | 8,890.00            | 62.15           | 61.84       | -92.88                | 1,919.85                          | 2,473.98   | 890.85               | 767.29                | 123.56                  | 7.210             |                    |         |
| 11,500.00                  | 8,835.00            | 11,473.21           | 8,890.00            | 63.91           | 63.60       | -92.88                | 1,920.45                          | 2,573.98   | 890.85               | 763.77                | 127.08                  | 7.010             |                    |         |
| 11,600.00                  | 8,835.00            | 11,573.21           | 8,890.00            | 65.69           | 65.38       | -92.88                | 1,921.04                          | 2,673.98   | 890.85               | 760.22                | 130.63                  | 6.820             |                    |         |
| 11,700.00                  | 8,835.00            | 11,673.21           | 8,890.00            | 67.47           | 67.18       | -92.88                | 1,921.64                          | 2,773.98   | 890.85               | 756.64                | 134.21                  | 6.638             |                    |         |
| 11,800.00                  | 8,835.00            | 11,773.21           | 8,890.00            | 69.28           | 68.99       | -92.88                | 1,922.24                          | 2,873.97   | 890.85               | 753.04                | 137.82                  | 6.464             |                    |         |
| 11,900.00                  | 8,835.00            | 11,873.21           | 8,890.00            | 71.09           | 70.81       | -92.88                | 1,922.84                          | 2,973.97   | 890.85               | 749.40                | 141.45                  | 6.298             |                    |         |
| 12,000.00                  | 8,835.00            | 11,973.21           | 8,890.00            | 72.92           | 72.64       | -92.88                | 1,923.43                          | 3,073.97   | 890.85               | 745.74                | 145.11                  | 6.139             |                    |         |
| 12,100.00                  | 8,835.00            | 12,073.21           | 8,890.00            | 74.76           | 74.48       | -92.88                | 1,924.03                          | 3,173.97   | 890.86               | 742.06                | 148.79                  | 5.987             |                    |         |
| 12,200.00                  | 8,835.00            | 12,173.21           | 8,890.00            | 76.61           | 76.34       | -92.88                | 1,924.63                          | 3,273.97   | 890.86               | 738.36                | 152.49                  | 5.842             |                    |         |
| 12,300.00                  | 8,835.00            | 12,273.21           | 8,890.00            | 78.47           | 78.20       | -92.88                | 1,925.22                          | 3,373.97   | 890.86               | 734.64                | 156.21                  | 5.703             |                    |         |
| 12,400.00                  | 8,835.00            | 12,373.21           | 8,890.00            | 80.34           | 80.08       | -92.88                | 1,925.82                          | 3,473.96   | 890.86               | 730.90                | 159.95                  | 5.569             |                    |         |
| 12,500.00                  | 8,835.00            | 12,473.21           | 8,890.00            | 82.22           | 81.96       | -92.88                | 1,926.42                          | 3,573.96   | 890.86               | 727.15                | 163.71                  | 5.442             |                    |         |
| 12,600.00                  | 8,835.00            | 12,573.21           | 8,890.00            | 84.11           | 83.85       | -92.88                | 1,927.01                          | 3,673.96   | 890.86               | 723.38                | 167.48                  | 5.319             |                    |         |
| 12,700.00                  | 8,835.00            | 12,673.21           | 8,890.00            | 86.00           | 85.74       | -92.88                | 1,927.61                          | 3,773.96   | 890.86               | 719.60                | 171.27                  | 5.202             |                    |         |
| 12,800.00                  | 8,835.00            | 12,773.21           | 8,890.00            | 87.90           | 87.65       | -92.88                | 1,928.21                          | 3,873.96   | 890.86               | 715.80                | 175.06                  | 5.089             |                    |         |
| 12,900.00                  | 8,835.00            | 12,873.21           | 8,890.00            | 89.81           | 89.56       | -92.88                | 1,928.80                          | 3,973.95   | 890.86               | 711.99                | 178.88                  | 4.980 Alert       |                    |         |
| 13,000.00                  | 8,835.00            | 12,973.21           | 8,890.00            | 91.72           | 91.47       | -92.88                | 1,929.40                          | 4,073.95   | 890.86               | 708.16                | 182.70                  | 4.876 Alert       |                    |         |
| 13,100.00                  | 8,835.00            | 13,073.21           | 8,890.00            | 93.64           | 93.39       | -92.88                | 1,930.00                          | 4,173.95   | 890.86               | 704.33                | 186.54                  | 4.776 Alert       |                    |         |
| 13,200.00                  | 8,835.00            | 13,173.21           | 8,890.00            | 95.56           | 95.32       | -92.88                | 1,930.59                          | 4,273.95   | 890.86               | 700.48                | 190.38                  | 4.679 Alert       |                    |         |
| 13,300.00                  | 8,835.00            | 13,273.21           | 8,890.00            | 97.49           | 97.25       | -92.88                | 1,931.19                          | 4,373.95   | 890.87               | 696.63                | 194.24                  | 4.587 Alert       |                    |         |
| 13,400.00                  | 8,835.00            | 13,373.21           | 8,890.00            | 99.42           | 99.19       | -92.88                | 1,931.79                          | 4,473.95   | 890.87               | 692.77                | 198.10                  | 4.497 Alert       |                    |         |
| 13,500.00                  | 8,835.00            | 13,473.21           | 8,890.00            | 101.36          | 101.13      | -92.88                | 1,932.38                          | 4,573.94   | 890.87               | 688.89                | 201.97                  | 4.411 Alert       |                    |         |
| 13,600.00                  | 8,835.00            | 13,573.21           | 8,890.00            | 103.30          | 103.07      | -92.88                | 1,932.98                          | 4,673.94   | 890.87               | 685.01                | 205.86                  | 4.328 Alert       |                    |         |
| 13,700.00                  | 8,835.00            | 13,673.21           | 8,890.00            | 105.25          | 105.02      | -92.88                | 1,933.58                          | 4,773.94   | 890.87               | 681.12                | 209.75                  | 4.247 Alert       |                    |         |
| 13,800.00                  | 8,835.00            | 13,773.21           | 8,890.00            | 107.20          | 106.97      | -92.88                | 1,934.17                          | 4,873.94   | 890.87               | 677.23                | 213.64                  | 4.170 Alert       |                    |         |
| 13,900.00                  | 8,835.00            | 13,873.21           | 8,890.00            | 109.15          | 108.92      | -92.88                | 1,934.77                          | 4,973.94   | 890.87               | 673.32                | 217.55                  | 4.095 Alert       |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 332H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Site Error:</b> | 0.00 ft |
|-----------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 0-MWD+IFR1                                                                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                           | Warning |
| Measured Depth (ft)                                                                                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor         |         |
| 14,000.00                                                                                                 | 8,835.00            | 13,973.21           | 8,890.00            | 111.10          | 110.88      | -92.88                | 1,935.37                          | 5,073.94   | 890.87               | 669.42                | 221.46                  | 4.023 Alert               |         |
| 14,100.00                                                                                                 | 8,835.00            | 14,073.21           | 8,890.00            | 113.06          | 112.84      | -92.88                | 1,935.97                          | 5,173.93   | 890.87               | 665.50                | 225.37                  | 3.953 Alert               |         |
| 14,200.00                                                                                                 | 8,835.00            | 14,173.21           | 8,890.00            | 115.03          | 114.81      | -92.88                | 1,936.56                          | 5,273.93   | 890.87               | 661.58                | 229.30                  | 3.885 Alert               |         |
| 14,300.00                                                                                                 | 8,835.00            | 14,273.21           | 8,890.00            | 116.99          | 116.78      | -92.88                | 1,937.16                          | 5,373.93   | 890.87               | 657.65                | 233.23                  | 3.820 Alert               |         |
| 14,400.00                                                                                                 | 8,835.00            | 14,373.21           | 8,890.00            | 118.96          | 118.75      | -92.88                | 1,937.76                          | 5,473.93   | 890.88               | 653.72                | 237.16                  | 3.756 Alert               |         |
| 14,500.00                                                                                                 | 8,835.00            | 14,473.21           | 8,890.00            | 120.93          | 120.72      | -92.88                | 1,938.35                          | 5,573.93   | 890.88               | 649.78                | 241.10                  | 3.695 Alert               |         |
| 14,600.00                                                                                                 | 8,835.00            | 14,573.21           | 8,890.00            | 122.90          | 122.69      | -92.88                | 1,938.95                          | 5,673.92   | 890.88               | 645.84                | 245.04                  | 3.636 Alert               |         |
| 14,700.00                                                                                                 | 8,835.00            | 14,673.21           | 8,890.00            | 124.88          | 124.67      | -92.88                | 1,939.55                          | 5,773.92   | 890.88               | 641.89                | 248.99                  | 3.578 Alert               |         |
| 14,800.00                                                                                                 | 8,835.00            | 14,773.21           | 8,890.00            | 126.86          | 126.65      | -92.88                | 1,940.14                          | 5,873.92   | 890.88               | 637.94                | 252.94                  | 3.522 Alert               |         |
| 14,900.00                                                                                                 | 8,835.00            | 14,873.21           | 8,890.00            | 128.84          | 128.63      | -92.88                | 1,940.74                          | 5,973.92   | 890.88               | 633.98                | 256.90                  | 3.468 Alert               |         |
| 15,000.00                                                                                                 | 8,835.00            | 14,973.21           | 8,890.00            | 130.82          | 130.62      | -92.88                | 1,941.34                          | 6,073.92   | 890.88               | 630.02                | 260.86                  | 3.415 Alert               |         |
| 15,100.00                                                                                                 | 8,835.00            | 15,073.21           | 8,890.00            | 132.80          | 132.60      | -92.88                | 1,941.93                          | 6,173.92   | 890.88               | 626.06                | 264.83                  | 3.364 Alert               |         |
| 15,200.00                                                                                                 | 8,835.00            | 15,173.21           | 8,890.00            | 134.79          | 134.59      | -92.88                | 1,942.53                          | 6,273.91   | 890.88               | 622.09                | 268.80                  | 3.314 Alert               |         |
| 15,300.00                                                                                                 | 8,835.00            | 15,273.21           | 8,890.00            | 136.78          | 136.58      | -92.88                | 1,943.13                          | 6,373.91   | 890.88               | 618.12                | 272.77                  | 3.266 Alert               |         |
| 15,400.00                                                                                                 | 8,835.00            | 15,373.21           | 8,890.00            | 138.76          | 138.57      | -92.88                | 1,943.72                          | 6,473.91   | 890.88               | 614.14                | 276.74                  | 3.219 Alert               |         |
| 15,500.00                                                                                                 | 8,835.00            | 15,473.21           | 8,890.00            | 140.76          | 140.56      | -92.88                | 1,944.32                          | 6,573.91   | 890.89               | 610.16                | 280.72                  | 3.174 Alert               |         |
| 15,600.00                                                                                                 | 8,835.00            | 15,573.21           | 8,890.00            | 142.75          | 142.55      | -92.88                | 1,944.92                          | 6,673.91   | 890.89               | 606.18                | 284.70                  | 3.129 Alert               |         |
| 15,700.00                                                                                                 | 8,835.00            | 15,673.21           | 8,890.00            | 144.74          | 144.55      | -92.88                | 1,945.51                          | 6,773.90   | 890.89               | 602.20                | 288.69                  | 3.086 Alert               |         |
| 15,800.00                                                                                                 | 8,835.00            | 15,773.21           | 8,890.00            | 146.74          | 146.55      | -92.88                | 1,946.11                          | 6,873.90   | 890.89               | 598.21                | 292.68                  | 3.044 Alert               |         |
| 15,900.00                                                                                                 | 8,835.00            | 15,873.21           | 8,890.00            | 148.73          | 148.54      | -92.88                | 1,946.71                          | 6,973.90   | 890.89               | 594.22                | 296.67                  | 3.003 Alert               |         |
| 16,000.00                                                                                                 | 8,835.00            | 15,973.21           | 8,890.00            | 150.73          | 150.54      | -92.88                | 1,947.31                          | 7,073.90   | 890.89               | 590.23                | 300.66                  | 2.963 Alert               |         |
| 16,100.00                                                                                                 | 8,835.00            | 16,073.21           | 8,890.00            | 152.73          | 152.54      | -92.88                | 1,947.90                          | 7,173.90   | 890.89               | 586.24                | 304.65                  | 2.924 Alert               |         |
| 16,200.00                                                                                                 | 8,835.00            | 16,173.21           | 8,890.00            | 154.73          | 154.55      | -92.88                | 1,948.50                          | 7,273.90   | 890.89               | 582.24                | 308.65                  | 2.886 Alert               |         |
| 16,300.00                                                                                                 | 8,835.00            | 16,273.21           | 8,890.00            | 156.73          | 156.55      | -92.88                | 1,949.10                          | 7,373.89   | 890.89               | 578.24                | 312.65                  | 2.849 Alert               |         |
| 16,400.00                                                                                                 | 8,835.00            | 16,373.21           | 8,890.00            | 158.74          | 158.55      | -92.88                | 1,949.69                          | 7,473.89   | 890.89               | 574.24                | 316.66                  | 2.813 Alert               |         |
| 16,500.00                                                                                                 | 8,835.00            | 16,473.21           | 8,890.00            | 160.74          | 160.56      | -92.88                | 1,950.29                          | 7,573.89   | 890.89               | 570.24                | 320.66                  | 2.778 Alert               |         |
| 16,600.00                                                                                                 | 8,835.00            | 16,573.21           | 8,890.00            | 162.74          | 162.56      | -92.88                | 1,950.89                          | 7,673.89   | 890.90               | 566.23                | 324.67                  | 2.744 Alert               |         |
| 16,700.00                                                                                                 | 8,835.00            | 16,673.21           | 8,890.00            | 164.75          | 164.57      | -92.88                | 1,951.48                          | 7,773.89   | 890.90               | 562.22                | 328.68                  | 2.711 Alert               |         |
| 16,800.00                                                                                                 | 8,835.00            | 16,773.21           | 8,890.00            | 166.76          | 166.58      | -92.88                | 1,952.08                          | 7,873.89   | 890.90               | 558.21                | 332.69                  | 2.678 Alert               |         |
| 16,900.00                                                                                                 | 8,835.00            | 16,873.21           | 8,890.00            | 168.77          | 168.59      | -92.88                | 1,952.68                          | 7,973.88   | 890.90               | 554.20                | 336.70                  | 2.646 Alert               |         |
| 17,000.00                                                                                                 | 8,835.00            | 16,973.21           | 8,890.00            | 170.77          | 170.60      | -92.88                | 1,953.27                          | 8,073.88   | 890.90               | 550.19                | 340.71                  | 2.615 Alert               |         |
| 17,100.00                                                                                                 | 8,835.00            | 17,073.21           | 8,890.00            | 172.78          | 172.61      | -92.88                | 1,953.87                          | 8,173.88   | 890.90               | 546.17                | 344.73                  | 2.584 Alert               |         |
| 17,200.00                                                                                                 | 8,835.00            | 17,173.21           | 8,890.00            | 174.79          | 174.62      | -92.88                | 1,954.47                          | 8,273.88   | 890.90               | 542.16                | 348.75                  | 2.555 Alert               |         |
| 17,300.00                                                                                                 | 8,835.00            | 17,273.21           | 8,890.00            | 176.81          | 176.63      | -92.88                | 1,955.06                          | 8,373.88   | 890.90               | 538.14                | 352.76                  | 2.525 Alert               |         |
| 17,400.00                                                                                                 | 8,835.00            | 17,373.21           | 8,890.00            | 178.82          | 178.65      | -92.88                | 1,955.66                          | 8,473.87   | 890.90               | 534.12                | 356.79                  | 2.497 Minor Risk          |         |
| 17,500.00                                                                                                 | 8,835.00            | 17,473.21           | 8,890.00            | 180.83          | 180.66      | -92.88                | 1,956.26                          | 8,573.87   | 890.90               | 530.10                | 360.81                  | 2.469 Minor Risk          |         |
| 17,600.00                                                                                                 | 8,835.00            | 17,573.21           | 8,890.00            | 182.84          | 182.67      | -92.88                | 1,956.85                          | 8,673.87   | 890.90               | 526.07                | 364.83                  | 2.442 Minor Risk          |         |
| 17,700.00                                                                                                 | 8,835.00            | 17,673.21           | 8,890.00            | 184.86          | 184.69      | -92.88                | 1,957.45                          | 8,773.87   | 890.91               | 522.05                | 368.86                  | 2.415 Minor Risk          |         |
| 17,800.00                                                                                                 | 8,835.00            | 17,773.21           | 8,890.00            | 186.87          | 186.71      | -92.88                | 1,958.05                          | 8,873.87   | 890.91               | 518.02                | 372.88                  | 2.389 Minor Risk          |         |
| 17,900.00                                                                                                 | 8,835.00            | 17,873.21           | 8,890.00            | 188.89          | 188.72      | -92.88                | 1,958.64                          | 8,973.87   | 890.91               | 514.00                | 376.91                  | 2.364 Minor Risk          |         |
| 18,000.00                                                                                                 | 8,835.00            | 17,973.21           | 8,890.00            | 190.91          | 190.74      | -92.88                | 1,959.24                          | 9,073.86   | 890.91               | 509.97                | 380.94                  | 2.339 Minor Risk          |         |
| 18,100.00                                                                                                 | 8,835.00            | 18,073.21           | 8,890.00            | 192.92          | 192.76      | -92.88                | 1,959.84                          | 9,173.86   | 890.91               | 505.94                | 384.97                  | 2.314 Minor Risk          |         |
| 18,200.00                                                                                                 | 8,835.00            | 18,173.21           | 8,890.00            | 194.94          | 194.78      | -92.88                | 1,960.44                          | 9,273.86   | 890.91               | 501.91                | 389.00                  | 2.290 Minor Risk          |         |
| 18,300.00                                                                                                 | 8,835.00            | 18,273.21           | 8,890.00            | 196.96          | 196.80      | -92.88                | 1,961.03                          | 9,373.86   | 890.91               | 497.88                | 393.03                  | 2.267 Minor Risk          |         |
| 18,400.00                                                                                                 | 8,835.00            | 18,373.21           | 8,890.00            | 198.98          | 198.82      | -92.88                | 1,961.63                          | 9,473.86   | 890.91               | 493.84                | 397.07                  | 2.244 Minor Risk          |         |
| 18,500.00                                                                                                 | 8,835.00            | 18,473.21           | 8,890.00            | 201.00          | 200.84      | -92.88                | 1,962.23                          | 9,573.86   | 890.91               | 489.81                | 401.10                  | 2.221 Minor Risk          |         |
| 18,600.00                                                                                                 | 8,835.00            | 18,573.21           | 8,890.00            | 203.02          | 202.86      | -92.88                | 1,962.82                          | 9,673.85   | 890.91               | 485.78                | 405.14                  | 2.199 Minor Risk          |         |
| 18,700.00                                                                                                 | 8,835.00            | 18,673.21           | 8,890.00            | 205.04          | 204.88      | -92.88                | 1,963.42                          | 9,773.85   | 890.91               | 481.74                | 409.18                  | 2.177 Minor Risk          |         |
| 18,800.00                                                                                                 | 8,835.00            | 18,773.21           | 8,890.00            | 207.06          | 206.90      | -92.88                | 1,964.02                          | 9,873.85   | 890.92               | 477.70                | 413.21                  | 2.156 Minor Risk          |         |
| 18,900.00                                                                                                 | 8,835.00            | 18,873.21           | 8,890.00            | 209.08          | 208.92      | -92.88                | 1,964.61                          | 9,973.85   | 890.92               | 473.66                | 417.25                  | 2.135 Minor Risk          |         |
| 19,000.00                                                                                                 | 8,835.00            | 18,973.21           | 8,890.00            | 211.10          | 210.94      | -92.88                | 1,965.21                          | 10,073.85  | 890.92               | 469.63                | 421.29                  | 2.115 Minor Risk          |         |
| 19,100.00                                                                                                 | 8,835.00            | 19,073.21           | 8,890.00            | 213.12          | 212.97      | -92.88                | 1,965.81                          | 10,173.84  | 890.92               | 465.59                | 425.33                  | 2.095 Minor Risk          |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 332H - Wellbore #1 - Permit Plan 1 |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 0.00 ft            |
|-----------------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|--------------------|
| Survey Program: 0-MWD+IFR1                                                                                |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 0.50 ft            |
| Reference                                                                                                 |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                           | Warning            |
| Measured Depth<br>(ft)                                                                                    | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |                    |
| 19,200.00                                                                                                 | 8,835.00               | 19,173.21              | 8,890.00               | 215.15            | 214.99         | -92.88                      | 1,966.40                                | 10,273.84     | 890.92                     | 461.55                      | 429.37                        | 2.075                     | Minor Risk         |
| 19,308.27                                                                                                 | 8,835.00               | 19,281.48              | 8,890.00               | 217.34            | 217.18         | -92.88                      | 1,967.05                                | 10,382.11     | 890.92                     | 457.17                      | 433.75                        | 2.054                     | Minor Risk, ES, SF |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Site Error:       | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Well Error:       | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                          |         |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor        | Warning |
| 0.00                       | 0.00                | 0.30                | -0.30               | 0.50            | 0.50        | 179.89                | -29.97                            | 0.06       | 29.97                |                       |                         |                          |         |
| 100.00                     | 100.00              | 100.30              | 99.70               | 0.52            | 0.52        | 179.89                | -29.97                            | 0.06       | 29.97                | 28.93                 | 1.04                    | 28.935                   |         |
| 200.00                     | 200.00              | 200.30              | 199.70              | 0.70            | 0.70        | 179.89                | -29.97                            | 0.06       | 29.97                | 28.57                 | 1.40                    | 21.332                   |         |
| 300.00                     | 300.00              | 300.30              | 299.70              | 0.99            | 0.99        | 179.89                | -29.97                            | 0.06       | 29.97                | 27.99                 | 1.98                    | 15.170                   |         |
| 400.00                     | 400.00              | 400.30              | 399.70              | 1.31            | 1.31        | 179.89                | -29.97                            | 0.06       | 29.97                | 27.35                 | 2.62                    | 11.443                   |         |
| 500.00                     | 500.00              | 500.30              | 499.70              | 1.65            | 1.65        | 179.89                | -29.97                            | 0.06       | 29.97                | 26.68                 | 3.29                    | 9.101                    |         |
| 600.00                     | 600.00              | 600.30              | 599.70              | 1.99            | 1.99        | 179.89                | -29.97                            | 0.06       | 29.97                | 25.99                 | 3.98                    | 7.526                    |         |
| 700.00                     | 700.00              | 700.30              | 699.70              | 2.34            | 2.34        | 179.89                | -29.97                            | 0.06       | 29.97                | 25.29                 | 4.68                    | 6.404                    |         |
| 800.00                     | 800.00              | 800.30              | 799.70              | 2.69            | 2.69        | 179.89                | -29.97                            | 0.06       | 29.97                | 24.59                 | 5.38                    | 5.568                    |         |
| 900.00                     | 900.00              | 900.30              | 899.70              | 3.04            | 3.04        | 179.89                | -29.97                            | 0.06       | 29.97                | 23.88                 | 6.09                    | 4.923 Alert              |         |
| 1,000.00                   | 1,000.00            | 1,000.30            | 999.70              | 3.40            | 3.40        | 179.89                | -29.97                            | 0.06       | 29.97                | 23.17                 | 6.80                    | 4.410 Alert              |         |
| 1,100.00                   | 1,100.00            | 1,100.30            | 1,099.70            | 3.75            | 3.75        | 179.89                | -29.97                            | 0.06       | 29.97                | 22.46                 | 7.51                    | 3.993 Alert              |         |
| 1,200.00                   | 1,200.00            | 1,200.30            | 1,199.70            | 4.11            | 4.11        | 179.89                | -29.97                            | 0.06       | 29.97                | 21.75                 | 8.22                    | 3.647 Alert              |         |
| 1,300.00                   | 1,300.00            | 1,300.30            | 1,299.70            | 4.46            | 4.47        | 179.89                | -29.97                            | 0.06       | 29.97                | 21.04                 | 8.93                    | 3.356 Alert              |         |
| 1,400.00                   | 1,400.00            | 1,400.30            | 1,399.70            | 4.82            | 4.82        | 179.89                | -29.97                            | 0.06       | 29.97                | 20.33                 | 9.64                    | 3.108 Alert              |         |
| 1,500.00                   | 1,500.00            | 1,500.30            | 1,499.70            | 5.18            | 5.18        | 179.89                | -29.97                            | 0.06       | 29.97                | 19.61                 | 10.36                   | 2.894 Alert              |         |
| 1,600.00                   | 1,600.00            | 1,600.30            | 1,599.70            | 5.53            | 5.54        | 179.89                | -29.97                            | 0.06       | 29.97                | 18.90                 | 11.07                   | 2.707 Alert              |         |
| 1,700.00                   | 1,700.00            | 1,700.30            | 1,699.70            | 5.89            | 5.89        | 179.89                | -29.97                            | 0.06       | 29.97                | 18.19                 | 11.78                   | 2.543 Alert              |         |
| 1,800.00                   | 1,800.00            | 1,800.30            | 1,799.70            | 6.25            | 6.25        | 179.89                | -29.97                            | 0.06       | 29.97                | 17.47                 | 12.50                   | 2.398 Minor Risk         |         |
| 1,900.00                   | 1,900.00            | 1,900.30            | 1,899.70            | 6.61            | 6.61        | 179.89                | -29.97                            | 0.06       | 29.97                | 16.76                 | 13.21                   | 2.268 Minor Risk         |         |
| 2,000.00                   | 2,000.00            | 2,000.30            | 1,999.70            | 6.96            | 6.96        | 179.89                | -29.97                            | 0.06       | 29.97                | 16.04                 | 13.93                   | 2.152 Minor Risk, CC, ES |         |
| 2,100.00                   | 2,099.99            | 2,100.31            | 2,099.69            | 7.32            | 7.32        | -167.69               | -29.97                            | 0.06       | 30.82                | 16.18                 | 14.64                   | 2.105 Minor Risk         |         |
| 2,200.00                   | 2,199.96            | 2,200.34            | 2,199.66            | 7.68            | 7.68        | -168.64               | -29.97                            | 0.06       | 33.38                | 18.03                 | 15.36                   | 2.174 Minor Risk         |         |
| 2,300.00                   | 2,299.86            | 2,300.44            | 2,299.56            | 8.04            | 8.04        | -169.94               | -29.97                            | 0.06       | 37.67                | 21.60                 | 16.07                   | 2.344 Minor Risk         |         |
| 2,400.00                   | 2,399.68            | 2,400.62            | 2,399.38            | 8.39            | 8.40        | -171.33               | -29.97                            | 0.06       | 43.69                | 26.91                 | 16.79                   | 2.603 Alert              |         |
| 2,500.00                   | 2,499.37            | 2,500.93            | 2,499.07            | 8.75            | 8.76        | -172.64               | -29.97                            | 0.06       | 51.46                | 33.96                 | 17.51                   | 2.940 Alert              |         |
| 2,600.00                   | 2,598.90            | 2,601.40            | 2,598.60            | 9.11            | 9.11        | -173.78               | -29.97                            | 0.06       | 60.98                | 42.76                 | 18.22                   | 3.347 Alert              |         |
| 2,700.00                   | 2,698.26            | 2,702.04            | 2,697.96            | 9.46            | 9.48        | -174.74               | -29.97                            | 0.06       | 72.25                | 53.31                 | 18.94                   | 3.815 Alert              |         |
| 2,800.00                   | 2,797.40            | 2,802.90            | 2,797.10            | 9.82            | 9.84        | -175.54               | -29.97                            | 0.06       | 85.25                | 65.60                 | 19.66                   | 4.337 Alert              |         |
| 2,900.00                   | 2,896.30            | 2,904.00            | 2,896.00            | 10.18           | 10.20       | -176.19               | -29.97                            | 0.06       | 100.00               | 79.62                 | 20.38                   | 4.908 Alert              |         |
| 3,000.00                   | 2,994.93            | 3,005.37            | 2,994.63            | 10.54           | 10.56       | -176.72               | -29.97                            | 0.06       | 116.47               | 95.38                 | 21.10                   | 5.521                    |         |
| 3,100.00                   | 3,093.26            | 3,107.05            | 3,092.96            | 10.90           | 10.93       | -177.15               | -29.97                            | 0.06       | 134.67               | 112.85                | 21.82                   | 6.173                    |         |
| 3,195.07                   | 3,186.42            | 3,186.12            | 3,186.12            | 11.24           | 11.21       | -177.49               | -29.97                            | 0.06       | 153.56               | 131.12                | 22.44                   | 6.844                    |         |
| 3,200.00                   | 3,191.25            | 3,209.05            | 3,190.95            | 11.26           | 11.29       | -177.51               | -29.97                            | 0.06       | 154.58               | 132.04                | 22.54                   | 6.858                    |         |
| 3,300.00                   | 3,289.08            | 3,288.78            | 3,288.78            | 11.62           | 11.58       | -177.80               | -29.97                            | 0.06       | 175.27               | 152.09                | 23.18                   | 7.561                    |         |
| 3,400.00                   | 3,386.91            | 3,386.61            | 3,386.61            | 11.98           | 11.93       | -178.04               | -29.97                            | 0.06       | 195.97               | 172.08                | 23.89                   | 8.203                    |         |
| 3,500.00                   | 3,484.74            | 3,484.44            | 3,484.44            | 12.35           | 12.28       | -178.22               | -29.97                            | 0.06       | 216.66               | 192.07                | 24.60                   | 8.808                    |         |
| 3,600.00                   | 3,582.58            | 3,582.28            | 3,582.28            | 12.72           | 12.63       | -178.38               | -29.97                            | 0.06       | 237.36               | 212.05                | 25.31                   | 9.378                    |         |
| 3,700.00                   | 3,680.41            | 3,680.11            | 3,680.11            | 13.09           | 12.98       | -178.51               | -29.97                            | 0.06       | 258.06               | 232.04                | 26.02                   | 9.917                    |         |
| 3,800.00                   | 3,778.24            | 3,777.94            | 3,777.94            | 13.46           | 13.33       | -178.62               | -29.97                            | 0.06       | 278.76               | 252.03                | 26.73                   | 10.427                   |         |
| 3,900.00                   | 3,876.08            | 3,875.78            | 3,875.78            | 13.83           | 13.68       | -178.71               | -29.97                            | 0.06       | 299.46               | 272.02                | 27.45                   | 10.910                   |         |
| 4,000.00                   | 3,973.91            | 3,973.61            | 3,973.61            | 14.21           | 14.03       | -178.80               | -29.97                            | 0.06       | 320.17               | 292.00                | 28.16                   | 11.368                   |         |
| 4,100.00                   | 4,071.74            | 4,074.35            | 4,074.35            | 14.58           | 14.39       | -178.81               | -29.73                            | -0.36      | 340.56               | 311.67                | 28.89                   | 11.787                   |         |
| 4,200.00                   | 4,169.57            | 4,176.56            | 4,176.53            | 14.96           | 14.75       | -178.61               | -28.63                            | -2.31      | 359.86               | 330.23                | 29.63                   | 12.147                   |         |
| 4,300.00                   | 4,267.41            | 4,279.18            | 4,279.07            | 15.33           | 15.10       | -178.21               | -26.62                            | -5.86      | 378.01               | 347.66                | 30.36                   | 12.452                   |         |
| 4,400.00                   | 4,365.24            | 4,382.14            | 4,381.86            | 15.71           | 15.47       | -177.65               | -23.70                            | -11.03     | 395.05               | 363.95                | 31.09                   | 12.706                   |         |
| 4,500.00                   | 4,463.07            | 4,482.18            | 4,481.65            | 16.09           | 15.82       | -176.99               | -20.19                            | -17.25     | 411.25               | 379.43                | 31.82                   | 12.926                   |         |
| 4,600.00                   | 4,560.90            | 4,580.77            | 4,579.97            | 16.47           | 16.17       | -176.39               | -16.67                            | -23.46     | 427.44               | 394.90                | 32.53                   | 13.138                   |         |
| 4,700.00                   | 4,658.74            | 4,679.35            | 4,678.30            | 16.85           | 16.51       | -175.83               | -13.16                            | -29.67     | 443.67               | 410.42                | 33.26                   | 13.341                   |         |
| 4,800.00                   | 4,756.57            | 4,777.94            | 4,776.62            | 17.23           | 16.86       | -175.31               | -9.65                             | -35.88     | 459.94               | 425.97                | 33.98                   | 13.537                   |         |
| 4,900.00                   | 4,854.40            | 4,876.52            | 4,874.95            | 17.61           | 17.21       | -174.82               | -6.14                             | -42.10     | 476.25               | 441.55                | 34.70                   | 13.725                   |         |
| 5,000.00                   | 4,952.23            | 4,975.10            | 4,973.27            | 17.99           | 17.56       | -174.37               | -2.63                             | -48.31     | 492.59               | 457.16                | 35.42                   | 13.906                   |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                   | 5,050.07            | 5,073.69            | 5,071.60            | 18.37           | 17.91       | -173.94               | 0.88                              | -54.52     | 508.95               | 472.81                | 36.15                   | 14.080            |                    |         |
| 5,200.00                   | 5,147.90            | 5,172.27            | 5,169.92            | 18.75           | 18.26       | -173.55               | 4.39                              | -60.73     | 525.34               | 488.47                | 36.87                   | 14.248            |                    |         |
| 5,300.00                   | 5,245.73            | 5,270.86            | 5,268.25            | 19.14           | 18.61       | -173.17               | 7.90                              | -66.94     | 541.76               | 504.16                | 37.60                   | 14.410            |                    |         |
| 5,400.00                   | 5,343.56            | 5,369.44            | 5,366.57            | 19.52           | 18.96       | -172.82               | 11.41                             | -73.15     | 558.19               | 519.87                | 38.32                   | 14.565            |                    |         |
| 5,500.00                   | 5,441.40            | 5,468.02            | 5,464.90            | 19.90           | 19.31       | -172.49               | 14.92                             | -79.36     | 574.65               | 535.60                | 39.05                   | 14.716            |                    |         |
| 5,600.00                   | 5,539.23            | 5,566.61            | 5,563.22            | 20.29           | 19.66       | -172.18               | 18.43                             | -85.57     | 591.12               | 551.34                | 39.78                   | 14.861            |                    |         |
| 5,700.00                   | 5,637.06            | 5,665.19            | 5,661.55            | 20.67           | 20.01       | -171.88               | 21.94                             | -91.79     | 607.61               | 567.10                | 40.51                   | 15.001            |                    |         |
| 5,800.00                   | 5,734.90            | 5,763.77            | 5,759.87            | 21.05           | 20.36       | -171.60               | 25.45                             | -98.00     | 624.11               | 582.88                | 41.23                   | 15.136            |                    |         |
| 5,900.00                   | 5,832.73            | 5,862.36            | 5,858.20            | 21.44           | 20.71       | -171.33               | 28.96                             | -104.21    | 640.63               | 598.67                | 41.96                   | 15.266            |                    |         |
| 6,000.00                   | 5,930.56            | 5,960.94            | 5,956.53            | 21.83           | 21.06       | -171.08               | 32.47                             | -110.42    | 657.16               | 614.47                | 42.69                   | 15.393            |                    |         |
| 6,100.00                   | 6,028.39            | 6,059.53            | 6,054.85            | 22.21           | 21.42       | -170.84               | 35.99                             | -116.63    | 673.70               | 630.28                | 43.42                   | 15.515            |                    |         |
| 6,200.00                   | 6,126.23            | 6,158.11            | 6,153.18            | 22.60           | 21.77       | -170.61               | 39.50                             | -122.84    | 690.26               | 646.10                | 44.15                   | 15.633            |                    |         |
| 6,300.00                   | 6,224.06            | 6,256.69            | 6,251.50            | 22.98           | 22.12       | -170.39               | 43.01                             | -129.05    | 706.82               | 661.94                | 44.88                   | 15.747            |                    |         |
| 6,400.00                   | 6,321.89            | 6,355.28            | 6,349.83            | 23.37           | 22.47       | -170.18               | 46.52                             | -135.26    | 723.39               | 677.78                | 45.62                   | 15.858            |                    |         |
| 6,500.00                   | 6,419.72            | 6,453.86            | 6,448.15            | 23.76           | 22.83       | -169.99               | 50.03                             | -141.47    | 739.98               | 693.63                | 46.35                   | 15.966            |                    |         |
| 6,600.00                   | 6,517.56            | 6,552.44            | 6,546.48            | 24.14           | 23.18       | -169.79               | 53.54                             | -147.69    | 756.57               | 709.49                | 47.08                   | 16.070            |                    |         |
| 6,700.00                   | 6,615.39            | 6,651.03            | 6,644.80            | 24.53           | 23.53       | -169.61               | 57.05                             | -153.90    | 773.16               | 725.35                | 47.81                   | 16.171            |                    |         |
| 6,800.00                   | 6,713.22            | 6,749.61            | 6,743.13            | 24.92           | 23.89       | -169.44               | 60.56                             | -160.11    | 789.77               | 741.22                | 48.55                   | 16.269            |                    |         |
| 6,900.00                   | 6,811.05            | 6,848.20            | 6,841.45            | 25.30           | 24.24       | -169.27               | 64.07                             | -166.32    | 806.38               | 757.10                | 49.28                   | 16.364            |                    |         |
| 7,000.00                   | 6,908.89            | 6,946.78            | 6,939.78            | 25.69           | 24.59       | -169.11               | 67.58                             | -172.53    | 823.00               | 772.99                | 50.01                   | 16.456            |                    |         |
| 7,100.00                   | 7,006.72            | 7,045.36            | 7,038.10            | 26.08           | 24.95       | -168.96               | 71.09                             | -178.74    | 839.62               | 788.88                | 50.75                   | 16.546            |                    |         |
| 7,200.00                   | 7,104.55            | 7,143.95            | 7,136.43            | 26.47           | 25.30       | -168.81               | 74.60                             | -184.95    | 856.25               | 804.77                | 51.48                   | 16.633            |                    |         |
| 7,216.87                   | 7,121.05            | 7,160.58            | 7,153.01            | 26.53           | 25.36       | -168.78               | 75.19                             | -186.00    | 859.06               | 807.46                | 51.60                   | 16.647            |                    |         |
| 7,300.00                   | 7,202.57            | 7,242.67            | 7,234.89            | 26.85           | 25.65       | -168.69               | 78.12                             | -191.17    | 872.01               | 819.80                | 52.21                   | 16.701            |                    |         |
| 7,400.00                   | 7,301.06            | 7,341.74            | 7,333.71            | 27.23           | 26.01       | -168.55               | 81.65                             | -197.41    | 885.28               | 832.33                | 52.95                   | 16.720            |                    |         |
| 7,500.00                   | 7,399.97            | 7,441.11            | 7,432.81            | 27.61           | 26.37       | -168.37               | 85.18                             | -203.67    | 896.00               | 842.33                | 53.68                   | 16.693            |                    |         |
| 7,600.00                   | 7,499.23            | 7,540.70            | 7,532.14            | 27.98           | 26.73       | -168.16               | 88.73                             | -209.95    | 904.19               | 849.79                | 54.40                   | 16.621            |                    |         |
| 7,700.00                   | 7,598.77            | 7,640.45            | 7,631.63            | 28.34           | 27.08       | -167.90               | 92.28                             | -216.23    | 909.84               | 854.72                | 55.12                   | 16.505            |                    |         |
| 7,800.00                   | 7,698.53            | 7,738.08            | 7,729.00            | 28.70           | 27.44       | -167.62               | 95.74                             | -222.35    | 912.98               | 857.15                | 55.83                   | 16.353            |                    |         |
| 7,900.00                   | 7,798.44            | 7,827.37            | 7,818.16            | 29.05           | 27.76       | -167.41               | 98.19                             | -226.69    | 914.38               | 857.91                | 56.48                   | 16.190            |                    |         |
| 8,000.00                   | 7,898.42            | 7,916.77            | 7,907.50            | 29.39           | 28.07       | -167.27               | 99.62                             | -229.22    | 914.40               | 857.29                | 57.11                   | 16.010            |                    |         |
| 8,013.58                   | 7,912.00            | 7,928.91            | 7,919.64            | 29.43           | 28.12       | 179.96                | 99.74                             | -229.42    | 914.30               | 857.10                | 57.20                   | 15.985            |                    |         |
| 8,100.00                   | 7,998.42            | 8,007.39            | 7,998.12            | 29.73           | 28.40       | 180.00                | 100.03                            | -229.94    | 913.97               | 856.22                | 57.75                   | 15.827            |                    |         |
| 8,200.00                   | 8,098.42            | 8,107.39            | 8,098.12            | 30.07           | 28.75       | 180.00                | 100.03                            | -229.94    | 913.97               | 855.52                | 58.45                   | 15.638            |                    |         |
| 8,300.00                   | 8,198.42            | 8,207.39            | 8,198.12            | 30.41           | 29.11       | 180.00                | 100.03                            | -229.94    | 913.97               | 854.82                | 59.15                   | 15.453            |                    |         |
| 8,363.62                   | 8,262.04            | 8,271.01            | 8,261.74            | 30.62           | 29.33       | 180.00                | 100.03                            | -229.94    | 913.97               | 854.38                | 59.59                   | 15.338            |                    |         |
| 8,400.00                   | 8,298.40            | 8,307.37            | 8,298.10            | 30.75           | 29.46       | 90.41                 | 100.03                            | -229.94    | 913.98               | 854.14                | 59.84                   | 15.273            |                    |         |
| 8,450.00                   | 8,348.10            | 8,357.38            | 8,348.11            | 30.91           | 29.64       | 90.73                 | 100.03                            | -229.83    | 914.03               | 853.85                | 60.18                   | 15.188            |                    |         |
| 8,500.00                   | 8,397.14            | 8,408.72            | 8,399.33            | 31.07           | 29.81       | 91.14                 | 100.07                            | -226.54    | 914.12               | 853.60                | 60.52                   | 15.103            |                    |         |
| 8,550.00                   | 8,445.15            | 8,460.68            | 8,450.65            | 31.23           | 29.98       | 91.55                 | 100.16                            | -218.56    | 914.23               | 853.36                | 60.87                   | 15.019            |                    |         |
| 8,600.00                   | 8,491.77            | 8,513.27            | 8,501.64            | 31.38           | 30.16       | 91.94                 | 100.30                            | -205.79    | 914.36               | 853.14                | 61.22                   | 14.936            |                    |         |
| 8,650.00                   | 8,536.65            | 8,566.48            | 8,551.83            | 31.52           | 30.33       | 92.32                 | 100.49                            | -188.16    | 914.50               | 852.93                | 61.56                   | 14.854            |                    |         |
| 8,700.00                   | 8,579.43            | 8,620.31            | 8,600.72            | 31.66           | 30.50       | 92.68                 | 100.74                            | -165.66    | 914.64               | 852.73                | 61.91                   | 14.773            |                    |         |
| 8,750.00                   | 8,619.80            | 8,674.75            | 8,647.78            | 31.80           | 30.68       | 93.03                 | 101.04                            | -138.36    | 914.77               | 852.51                | 62.26                   | 14.693            |                    |         |
| 8,800.00                   | 8,657.44            | 8,729.76            | 8,692.50            | 31.93           | 30.85       | 93.35                 | 101.39                            | -106.36    | 914.89               | 852.29                | 62.61                   | 14.614            |                    |         |
| 8,850.00                   | 8,692.08            | 8,785.31            | 8,734.33            | 32.06           | 31.03       | 93.64                 | 101.79                            | -69.84     | 915.00               | 852.04                | 62.96                   | 14.533            |                    |         |
| 8,900.00                   | 8,723.44            | 8,841.35            | 8,772.75            | 32.19           | 31.22       | 93.91                 | 102.24                            | -29.07     | 915.07               | 851.74                | 63.33                   | 14.450            |                    |         |
| 8,950.00                   | 8,751.29            | 8,897.84            | 8,807.26            | 32.34           | 31.41       | 94.14                 | 102.73                            | 15.62      | 915.10               | 851.39                | 63.71                   | 14.363            |                    |         |
| 9,000.00                   | 8,775.42            | 8,954.71            | 8,837.38            | 32.50           | 31.63       | 94.34                 | 103.26                            | 63.83      | 915.09               | 850.97                | 64.13                   | 14.270            |                    |         |
| 9,050.00                   | 8,795.64            | 9,011.90            | 8,862.71            | 32.67           | 31.86       | 94.50                 | 103.82                            | 115.07     | 915.03               | 850.46                | 64.58                   | 14.170            |                    |         |
| 9,100.00                   | 8,811.80            | 9,069.31            | 8,882.88            | 32.87           | 32.12       | 94.61                 | 104.42                            | 168.80     | 914.92               | 849.85                | 65.06                   | 14.062            |                    |         |
| 9,150.00                   | 8,823.77            | 9,126.88            | 8,897.60            | 33.10           | 32.40       | 94.69                 | 105.03                            | 224.42     | 914.74               | 849.15                | 65.59                   | 13.947            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                |                |                |                 |        |                   |                        |            |                 |                  |                    |                   | Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 334H - Wellbore #1 - Permit Plan 1 |  | Offset Site Error: |  | 0.00 ft |
|----------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|--------------------|-------------------|--------------------------------------------------------------------------------------|--|--------------------|--|---------|
| Survey Program: 0-MWD+IFR1 |                |                |                |                 |        |                   |                        |            |                 |                  |                    |                   |                                                                                      |  | Offset Well Error: |  | 0.50 ft |
| Reference                  |                | Offset         |                | Semi Major Axis |        |                   | Distance               |            |                 |                  |                    |                   |                                                                                      |  |                    |  |         |
| Measured Depth             | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre |            | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | Warning                                                                              |  |                    |  |         |
| Depth (ft)                 | Depth (ft)     | Depth (ft)     | Depth (ft)     | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft) | (ft)            | (ft)             | (ft)               |                   |                                                                                      |  |                    |  |         |
| 9,200.00                   | 8,831.47       | 9,184.51       | 8,906.67       | 33.34           | 32.70  | 94.73             | 105.65                 | 281.31     | 914.51          | 848.36           | 66.15              | 13.824            |                                                                                      |  |                    |  |         |
| 9,250.00                   | 8,834.84       | 9,242.13       | 8,909.98       | 33.60           | 33.03  | 94.73             | 106.28                 | 338.80     | 914.22          | 847.47           | 66.75              | 13.696            |                                                                                      |  |                    |  |         |
| 9,263.62                   | 8,835.00       | 9,256.30       | 8,910.00       | 33.67           | 33.11  | 94.73             | 106.44                 | 352.97     | 914.14          | 847.22           | 66.91              | 13.662            |                                                                                      |  |                    |  |         |
| 9,300.00                   | 8,835.00       | 9,307.32       | 8,910.00       | 33.88           | 33.43  | 94.73             | 106.84                 | 389.35     | 913.95          | 846.51           | 67.45              | 13.551            |                                                                                      |  |                    |  |         |
| 9,400.00                   | 8,835.00       | 9,407.33       | 8,910.00       | 34.53           | 34.13  | 94.73             | 107.94                 | 489.34     | 913.45          | 844.63           | 68.82              | 13.272            |                                                                                      |  |                    |  |         |
| 9,500.00                   | 8,835.00       | 9,507.33       | 8,910.00       | 35.30           | 34.94  | 94.73             | 109.04                 | 589.33     | 912.95          | 842.54           | 70.41              | 12.966            |                                                                                      |  |                    |  |         |
| 9,600.00                   | 8,835.00       | 9,607.33       | 8,910.00       | 36.17           | 35.85  | 94.73             | 110.14                 | 689.32     | 912.45          | 840.25           | 72.20              | 12.638            |                                                                                      |  |                    |  |         |
| 9,700.00                   | 8,835.00       | 9,707.33       | 8,910.00       | 37.13           | 36.85  | 94.74             | 111.24                 | 789.32     | 911.94          | 837.78           | 74.16              | 12.296            |                                                                                      |  |                    |  |         |
| 9,800.00                   | 8,835.00       | 9,807.33       | 8,910.00       | 38.18           | 37.93  | 94.74             | 112.34                 | 889.31     | 911.44          | 835.14           | 76.30              | 11.946            |                                                                                      |  |                    |  |         |
| 9,900.00                   | 8,835.00       | 9,907.33       | 8,910.00       | 39.31           | 39.10  | 94.74             | 113.44                 | 989.30     | 910.94          | 832.35           | 78.59              | 11.592            |                                                                                      |  |                    |  |         |
| 10,000.00                  | 8,835.00       | 10,007.33      | 8,910.00       | 40.51           | 40.33  | 94.74             | 114.54                 | 1,089.29   | 910.44          | 829.42           | 81.02              | 11.238            |                                                                                      |  |                    |  |         |
| 10,100.00                  | 8,835.00       | 10,107.33      | 8,910.00       | 41.78           | 41.62  | 94.75             | 115.64                 | 1,189.29   | 909.94          | 826.36           | 83.57              | 10.888            |                                                                                      |  |                    |  |         |
| 10,200.00                  | 8,835.00       | 10,207.34      | 8,910.00       | 43.10           | 42.98  | 94.75             | 116.74                 | 1,289.28   | 909.43          | 823.18           | 86.25              | 10.544            |                                                                                      |  |                    |  |         |
| 10,300.00                  | 8,835.00       | 10,307.34      | 8,910.00       | 44.49           | 44.38  | 94.75             | 117.84                 | 1,389.27   | 908.93          | 819.90           | 89.03              | 10.209            |                                                                                      |  |                    |  |         |
| 10,400.00                  | 8,835.00       | 10,407.34      | 8,910.00       | 45.92           | 45.84  | 94.75             | 118.94                 | 1,489.27   | 908.43          | 816.52           | 91.91              | 9.884             |                                                                                      |  |                    |  |         |
| 10,500.00                  | 8,835.00       | 10,507.34      | 8,910.00       | 47.39           | 47.34  | 94.76             | 120.04                 | 1,589.26   | 907.93          | 813.05           | 94.88              | 9.570             |                                                                                      |  |                    |  |         |
| 10,600.00                  | 8,835.00       | 10,607.34      | 8,910.00       | 48.91           | 48.87  | 94.76             | 121.14                 | 1,689.25   | 907.43          | 809.50           | 97.92              | 9.267             |                                                                                      |  |                    |  |         |
| 10,700.00                  | 8,835.00       | 10,707.34      | 8,910.00       | 50.47           | 50.45  | 94.76             | 122.24                 | 1,789.24   | 906.92          | 805.88           | 101.04             | 8.976             |                                                                                      |  |                    |  |         |
| 10,800.00                  | 8,835.00       | 10,807.34      | 8,910.00       | 52.06           | 52.06  | 94.77             | 123.34                 | 1,889.24   | 906.42          | 802.19           | 104.23             | 8.696             |                                                                                      |  |                    |  |         |
| 10,900.00                  | 8,835.00       | 10,907.34      | 8,910.00       | 53.68           | 53.69  | 94.77             | 124.44                 | 1,989.23   | 905.92          | 798.44           | 107.48             | 8.429             |                                                                                      |  |                    |  |         |
| 11,000.00                  | 8,835.00       | 11,007.35      | 8,910.00       | 55.32           | 55.36  | 94.77             | 125.54                 | 2,089.22   | 905.42          | 794.64           | 110.78             | 8.173             |                                                                                      |  |                    |  |         |
| 11,100.00                  | 8,835.00       | 11,107.35      | 8,910.00       | 57.00           | 57.05  | 94.77             | 126.64                 | 2,189.21   | 904.91          | 790.78           | 114.13             | 7.929             |                                                                                      |  |                    |  |         |
| 11,200.00                  | 8,835.00       | 11,207.35      | 8,910.00       | 58.70           | 58.76  | 94.78             | 127.74                 | 2,289.21   | 904.41          | 786.88           | 117.53             | 7.695             |                                                                                      |  |                    |  |         |
| 11,300.00                  | 8,835.00       | 11,307.35      | 8,910.00       | 60.41           | 60.49  | 94.78             | 128.84                 | 2,389.20   | 903.91          | 782.94           | 120.97             | 7.472             |                                                                                      |  |                    |  |         |
| 11,400.00                  | 8,835.00       | 11,407.35      | 8,910.00       | 62.15           | 62.24  | 94.78             | 129.94                 | 2,489.19   | 903.41          | 778.96           | 124.45             | 7.259             |                                                                                      |  |                    |  |         |
| 11,500.00                  | 8,835.00       | 11,507.35      | 8,910.00       | 63.91           | 64.01  | 94.78             | 131.03                 | 2,589.18   | 902.91          | 774.94           | 127.96             | 7.056             |                                                                                      |  |                    |  |         |
| 11,600.00                  | 8,835.00       | 11,607.35      | 8,910.00       | 65.69           | 65.79  | 94.79             | 132.13                 | 2,689.18   | 902.40          | 770.90           | 131.51             | 6.862             |                                                                                      |  |                    |  |         |
| 11,700.00                  | 8,835.00       | 11,707.35      | 8,910.00       | 67.47           | 67.59  | 94.79             | 133.23                 | 2,789.17   | 901.90          | 766.82           | 135.09             | 6.677             |                                                                                      |  |                    |  |         |
| 11,800.00                  | 8,835.00       | 11,807.36      | 8,910.00       | 69.28           | 69.41  | 94.79             | 134.33                 | 2,889.16   | 901.40          | 762.71           | 138.69             | 6.499             |                                                                                      |  |                    |  |         |
| 11,900.00                  | 8,835.00       | 11,907.36      | 8,910.00       | 71.09           | 71.23  | 94.79             | 135.43                 | 2,989.16   | 900.90          | 758.58           | 142.32             | 6.330             |                                                                                      |  |                    |  |         |
| 12,000.00                  | 8,835.00       | 12,007.36      | 8,910.00       | 72.92           | 73.07  | 94.80             | 136.53                 | 3,089.15   | 900.40          | 754.42           | 145.98             | 6.168             |                                                                                      |  |                    |  |         |
| 12,100.00                  | 8,835.00       | 12,107.36      | 8,910.00       | 74.76           | 74.92  | 94.80             | 137.63                 | 3,189.14   | 899.89          | 750.24           | 149.65             | 6.013             |                                                                                      |  |                    |  |         |
| 12,200.00                  | 8,835.00       | 12,207.36      | 8,910.00       | 76.61           | 76.77  | 94.80             | 138.73                 | 3,289.13   | 899.39          | 746.04           | 153.35             | 5.865             |                                                                                      |  |                    |  |         |
| 12,300.00                  | 8,835.00       | 12,307.36      | 8,910.00       | 78.47           | 78.64  | 94.81             | 139.83                 | 3,389.13   | 898.89          | 741.83           | 157.06             | 5.723             |                                                                                      |  |                    |  |         |
| 12,400.00                  | 8,835.00       | 12,407.36      | 8,910.00       | 80.34           | 80.52  | 94.81             | 140.93                 | 3,489.12   | 898.39          | 737.59           | 160.80             | 5.587             |                                                                                      |  |                    |  |         |
| 12,500.00                  | 8,835.00       | 12,507.36      | 8,910.00       | 82.22           | 82.40  | 94.81             | 142.03                 | 3,589.11   | 897.89          | 733.34           | 164.55             | 5.457             |                                                                                      |  |                    |  |         |
| 12,600.00                  | 8,835.00       | 12,607.37      | 8,910.00       | 84.11           | 84.29  | 94.81             | 143.13                 | 3,689.10   | 897.38          | 729.07           | 168.31             | 5.332             |                                                                                      |  |                    |  |         |
| 12,700.00                  | 8,835.00       | 12,707.37      | 8,910.00       | 86.00           | 86.19  | 94.82             | 144.23                 | 3,789.10   | 896.88          | 724.79           | 172.09             | 5.212             |                                                                                      |  |                    |  |         |
| 12,800.00                  | 8,835.00       | 12,807.37      | 8,910.00       | 87.90           | 88.10  | 94.82             | 145.33                 | 3,889.09   | 896.38          | 720.50           | 175.88             | 5.096             |                                                                                      |  |                    |  |         |
| 12,900.00                  | 8,835.00       | 12,907.37      | 8,910.00       | 89.81           | 90.01  | 94.82             | 146.43                 | 3,989.08   | 895.88          | 716.19           | 179.69             | 4.986             | Alert                                                                                |  |                    |  |         |
| 13,000.00                  | 8,835.00       | 13,007.37      | 8,910.00       | 91.72           | 91.93  | 94.82             | 147.53                 | 4,089.08   | 895.38          | 711.87           | 183.51             | 4.879             | Alert                                                                                |  |                    |  |         |
| 13,100.00                  | 8,835.00       | 13,107.37      | 8,910.00       | 93.64           | 93.85  | 94.83             | 148.63                 | 4,189.07   | 894.87          | 707.54           | 187.33             | 4.777             | Alert                                                                                |  |                    |  |         |
| 13,200.00                  | 8,835.00       | 13,207.37      | 8,910.00       | 95.56           | 95.78  | 94.83             | 149.73                 | 4,289.06   | 894.37          | 703.20           | 191.17             | 4.678             | Alert                                                                                |  |                    |  |         |
| 13,300.00                  | 8,835.00       | 13,307.37      | 8,910.00       | 97.49           | 97.71  | 94.83             | 150.83                 | 4,389.05   | 893.87          | 698.85           | 195.02             | 4.583             | Alert                                                                                |  |                    |  |         |
| 13,400.00                  | 8,835.00       | 13,407.38      | 8,910.00       | 99.42           | 99.64  | 94.84             | 151.93                 | 4,489.05   | 893.37          | 694.49           | 198.88             | 4.492             | Alert                                                                                |  |                    |  |         |
| 13,500.00                  | 8,835.00       | 13,507.38      | 8,910.00       | 101.36          | 101.59 | 94.84             | 153.03                 | 4,589.04   | 892.86          | 690.12           | 202.74             | 4.404             | Alert                                                                                |  |                    |  |         |
| 13,600.00                  | 8,835.00       | 13,607.38      | 8,910.00       | 103.30          | 103.53 | 94.84             | 154.13                 | 4,689.03   | 892.36          | 685.74           | 206.62             | 4.319             | Alert                                                                                |  |                    |  |         |
| 13,700.00                  | 8,835.00       | 13,707.38      | 8,910.00       | 105.25          | 105.48 | 94.84             | 155.23                 | 4,789.02   | 891.86          | 681.36           | 210.50             | 4.237             | Alert                                                                                |  |                    |  |         |
| 13,800.00                  | 8,835.00       | 13,807.38      | 8,910.00       | 107.20          | 107.43 | 94.85             | 156.33                 | 4,889.02   | 891.36          | 676.97           | 214.39             | 4.158             | Alert                                                                                |  |                    |  |         |
| 13,900.00                  | 8,835.00       | 13,907.38      | 8,910.00       | 109.15          | 109.39 | 94.85             | 157.43                 | 4,989.01   | 890.86          | 672.57           | 218.29             | 4.081             | Alert                                                                                |  |                    |  |         |
| 14,000.00                  | 8,835.00       | 14,007.38      | 8,910.00       | 111.10          | 111.35 | 94.85             | 158.53                 | 5,089.00   | 890.35          | 668.17           | 222.19             | 4.007             | Alert                                                                                |  |                    |  |         |
| 14,100.00                  | 8,835.00       | 14,107.39      | 8,910.00       | 113.06          | 113.31 | 94.85             | 159.63                 | 5,188.99   | 889.85          | 663.76           | 226.10             | 3.936             | Alert                                                                                |  |                    |  |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 334H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Site Error:</b> | 0.00 ft        |
|-----------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|----------------|
| Survey Program: 0-MWD+IFR1                                                                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Well Error:</b> | 0.50 ft        |
| Reference                                                                                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                           |                |
| Measured Depth (ft)                                                                                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor         | Warning        |
| 14,200.00                                                                                                 | 8,835.00            | 14,207.39           | 8,910.00            | 115.03          | 115.27      | 94.86                 | 160.73                            | 5,288.99   | 889.35               | 659.34                | 230.01                  | 3.867                     | Alert          |
| 14,300.00                                                                                                 | 8,835.00            | 14,307.39           | 8,910.00            | 116.99          | 117.24      | 94.86                 | 161.83                            | 5,388.98   | 888.85               | 654.92                | 233.93                  | 3.800                     | Alert          |
| 14,400.00                                                                                                 | 8,835.00            | 14,407.39           | 8,910.00            | 118.96          | 119.21      | 94.86                 | 162.93                            | 5,488.97   | 888.35               | 650.49                | 237.86                  | 3.735                     | Alert          |
| 14,500.00                                                                                                 | 8,835.00            | 14,507.39           | 8,910.00            | 120.93          | 121.19      | 94.87                 | 164.03                            | 5,588.97   | 887.84               | 646.06                | 241.79                  | 3.672                     | Alert          |
| 14,600.00                                                                                                 | 8,835.00            | 14,607.39           | 8,910.00            | 122.90          | 123.16      | 94.87                 | 165.13                            | 5,688.96   | 887.34               | 641.62                | 245.72                  | 3.611                     | Alert          |
| 14,700.00                                                                                                 | 8,835.00            | 14,707.39           | 8,910.00            | 124.88          | 125.14      | 94.87                 | 166.23                            | 5,788.95   | 886.84               | 637.18                | 249.66                  | 3.552                     | Alert          |
| 14,800.00                                                                                                 | 8,835.00            | 14,807.39           | 8,910.00            | 126.86          | 127.12      | 94.87                 | 167.33                            | 5,888.94   | 886.34               | 632.73                | 253.61                  | 3.495                     | Alert          |
| 14,900.00                                                                                                 | 8,835.00            | 14,907.40           | 8,910.00            | 128.84          | 129.10      | 94.88                 | 168.43                            | 5,988.94   | 885.84               | 628.28                | 257.56                  | 3.439                     | Alert          |
| 15,000.00                                                                                                 | 8,835.00            | 15,007.40           | 8,910.00            | 130.82          | 131.08      | 94.88                 | 169.53                            | 6,088.93   | 885.33               | 623.82                | 261.51                  | 3.385                     | Alert          |
| 15,100.00                                                                                                 | 8,835.00            | 15,107.40           | 8,910.00            | 132.80          | 133.07      | 94.88                 | 170.63                            | 6,188.92   | 884.83               | 619.37                | 265.47                  | 3.333                     | Alert          |
| 15,200.00                                                                                                 | 8,835.00            | 15,207.40           | 8,910.00            | 134.79          | 135.06      | 94.88                 | 171.72                            | 6,288.91   | 884.33               | 614.90                | 269.43                  | 3.282                     | Alert          |
| 15,300.00                                                                                                 | 8,835.00            | 15,307.40           | 8,910.00            | 136.78          | 137.04      | 94.89                 | 172.82                            | 6,388.91   | 883.83               | 610.44                | 273.39                  | 3.233                     | Alert          |
| 15,400.00                                                                                                 | 8,835.00            | 15,407.40           | 8,910.00            | 138.76          | 139.04      | 94.89                 | 173.92                            | 6,488.90   | 883.33               | 605.97                | 277.36                  | 3.185                     | Alert          |
| 15,500.00                                                                                                 | 8,835.00            | 15,507.40           | 8,910.00            | 140.76          | 141.03      | 94.89                 | 175.02                            | 6,588.89   | 882.82               | 601.50                | 281.33                  | 3.138                     | Alert          |
| 15,600.00                                                                                                 | 8,835.00            | 15,607.40           | 8,910.00            | 142.75          | 143.02      | 94.90                 | 176.12                            | 6,688.88   | 882.32               | 597.02                | 285.30                  | 3.093                     | Alert          |
| 15,700.00                                                                                                 | 8,835.00            | 15,707.41           | 8,910.00            | 144.74          | 145.02      | 94.90                 | 177.22                            | 6,788.88   | 881.82               | 592.54                | 289.28                  | 3.048                     | Alert          |
| 15,800.00                                                                                                 | 8,835.00            | 15,807.41           | 8,910.00            | 146.74          | 147.01      | 94.90                 | 178.32                            | 6,888.87   | 881.32               | 588.06                | 293.26                  | 3.005                     | Alert          |
| 15,900.00                                                                                                 | 8,835.00            | 15,907.41           | 8,910.00            | 148.73          | 149.01      | 94.90                 | 179.42                            | 6,988.86   | 880.82               | 583.58                | 297.24                  | 2.963                     | Alert          |
| 16,000.00                                                                                                 | 8,835.00            | 16,007.41           | 8,910.00            | 150.73          | 151.01      | 94.91                 | 180.52                            | 7,088.86   | 880.31               | 579.09                | 301.22                  | 2.922                     | Alert          |
| 16,100.00                                                                                                 | 8,835.00            | 16,107.41           | 8,910.00            | 152.73          | 153.01      | 94.91                 | 181.62                            | 7,188.85   | 879.81               | 574.60                | 305.21                  | 2.883                     | Alert          |
| 16,200.00                                                                                                 | 8,835.00            | 16,207.41           | 8,910.00            | 154.73          | 155.01      | 94.91                 | 182.72                            | 7,288.84   | 879.31               | 570.11                | 309.20                  | 2.844                     | Alert          |
| 16,300.00                                                                                                 | 8,835.00            | 16,307.41           | 8,910.00            | 156.73          | 157.01      | 94.92                 | 183.82                            | 7,388.83   | 878.81               | 565.62                | 313.19                  | 2.806                     | Alert          |
| 16,400.00                                                                                                 | 8,835.00            | 16,407.41           | 8,910.00            | 158.74          | 159.02      | 94.92                 | 184.92                            | 7,488.83   | 878.31               | 561.13                | 317.18                  | 2.769                     | Alert          |
| 16,500.00                                                                                                 | 8,835.00            | 16,507.42           | 8,910.00            | 160.74          | 161.02      | 94.92                 | 186.02                            | 7,588.82   | 877.80               | 556.63                | 321.18                  | 2.733                     | Alert          |
| 16,600.00                                                                                                 | 8,835.00            | 16,607.42           | 8,910.00            | 162.74          | 163.03      | 94.92                 | 187.12                            | 7,688.81   | 877.30               | 552.13                | 325.17                  | 2.698                     | Alert          |
| 16,700.00                                                                                                 | 8,835.00            | 16,707.42           | 8,910.00            | 164.75          | 165.03      | 94.93                 | 188.22                            | 7,788.80   | 876.80               | 547.63                | 329.17                  | 2.664                     | Alert          |
| 16,800.00                                                                                                 | 8,835.00            | 16,807.42           | 8,910.00            | 166.76          | 167.04      | 94.93                 | 189.32                            | 7,888.80   | 876.30               | 543.12                | 333.17                  | 2.630                     | Alert          |
| 16,900.00                                                                                                 | 8,835.00            | 16,907.42           | 8,910.00            | 168.77          | 169.05      | 94.93                 | 190.42                            | 7,988.79   | 875.80               | 538.62                | 337.18                  | 2.597                     | Alert          |
| 17,000.00                                                                                                 | 8,835.00            | 17,007.42           | 8,910.00            | 170.77          | 171.06      | 94.94                 | 191.52                            | 8,088.78   | 875.29               | 534.11                | 341.18                  | 2.565                     | Alert          |
| 17,100.00                                                                                                 | 8,835.00            | 17,107.42           | 8,910.00            | 172.78          | 173.07      | 94.94                 | 192.62                            | 8,188.78   | 874.79               | 529.60                | 345.19                  | 2.534                     | Alert          |
| 17,200.00                                                                                                 | 8,835.00            | 17,207.42           | 8,910.00            | 174.79          | 175.08      | 94.94                 | 193.72                            | 8,288.77   | 874.29               | 525.09                | 349.20                  | 2.504                     | Alert          |
| 17,300.00                                                                                                 | 8,835.00            | 17,307.43           | 8,910.00            | 176.81          | 177.09      | 94.94                 | 194.82                            | 8,388.76   | 873.79               | 520.58                | 353.21                  | 2.474                     | Minor Risk     |
| 17,400.00                                                                                                 | 8,835.00            | 17,407.43           | 8,910.00            | 178.82          | 179.11      | 94.95                 | 195.92                            | 8,488.75   | 873.29               | 516.07                | 357.22                  | 2.445                     | Minor Risk     |
| 17,500.00                                                                                                 | 8,835.00            | 17,507.43           | 8,910.00            | 180.83          | 181.12      | 94.95                 | 197.02                            | 8,588.75   | 872.78               | 511.55                | 361.23                  | 2.416                     | Minor Risk     |
| 17,600.00                                                                                                 | 8,835.00            | 17,607.43           | 8,910.00            | 182.84          | 183.13      | 94.95                 | 198.12                            | 8,688.74   | 872.28               | 507.04                | 365.25                  | 2.388                     | Minor Risk     |
| 17,700.00                                                                                                 | 8,835.00            | 17,707.43           | 8,910.00            | 184.86          | 185.15      | 94.96                 | 199.22                            | 8,788.73   | 871.78               | 502.52                | 369.26                  | 2.361                     | Minor Risk     |
| 17,800.00                                                                                                 | 8,835.00            | 17,807.43           | 8,910.00            | 186.87          | 187.16      | 94.96                 | 200.32                            | 8,888.72   | 871.28               | 498.00                | 373.28                  | 2.334                     | Minor Risk     |
| 17,900.00                                                                                                 | 8,835.00            | 17,907.43           | 8,910.00            | 188.89          | 189.18      | 94.96                 | 201.42                            | 8,988.72   | 870.78               | 493.48                | 377.30                  | 2.308                     | Minor Risk     |
| 18,000.00                                                                                                 | 8,835.00            | 18,007.43           | 8,910.00            | 190.91          | 191.20      | 94.96                 | 202.52                            | 9,088.71   | 870.27               | 488.96                | 381.32                  | 2.282                     | Minor Risk     |
| 18,100.00                                                                                                 | 8,835.00            | 18,107.44           | 8,910.00            | 192.92          | 193.21      | 94.97                 | 203.62                            | 9,188.70   | 869.77               | 484.44                | 385.34                  | 2.257                     | Minor Risk     |
| 18,200.00                                                                                                 | 8,835.00            | 18,207.44           | 8,910.00            | 194.94          | 195.23      | 94.97                 | 204.72                            | 9,288.69   | 869.27               | 479.91                | 389.36                  | 2.233                     | Minor Risk     |
| 18,300.00                                                                                                 | 8,835.00            | 18,307.44           | 8,910.00            | 196.96          | 197.25      | 94.97                 | 205.82                            | 9,388.69   | 868.77               | 475.39                | 393.38                  | 2.208                     | Minor Risk     |
| 18,400.00                                                                                                 | 8,835.00            | 18,407.44           | 8,910.00            | 198.98          | 199.27      | 94.98                 | 206.92                            | 9,488.68   | 868.27               | 470.86                | 397.41                  | 2.185                     | Minor Risk     |
| 18,500.00                                                                                                 | 8,835.00            | 18,507.44           | 8,910.00            | 201.00          | 201.29      | 94.98                 | 208.02                            | 9,588.67   | 867.77               | 466.33                | 401.43                  | 2.162                     | Minor Risk     |
| 18,600.00                                                                                                 | 8,835.00            | 18,607.44           | 8,910.00            | 203.02          | 203.31      | 94.98                 | 209.12                            | 9,688.67   | 867.26               | 461.81                | 405.46                  | 2.139                     | Minor Risk     |
| 18,700.00                                                                                                 | 8,835.00            | 18,707.44           | 8,910.00            | 205.04          | 205.33      | 94.98                 | 210.22                            | 9,788.66   | 866.76               | 457.28                | 409.48                  | 2.117                     | Minor Risk     |
| 18,800.00                                                                                                 | 8,835.00            | 18,807.44           | 8,910.00            | 207.06          | 207.35      | 94.99                 | 211.32                            | 9,888.65   | 866.26               | 452.75                | 413.51                  | 2.095                     | Minor Risk     |
| 18,900.00                                                                                                 | 8,835.00            | 18,907.45           | 8,910.00            | 209.08          | 209.37      | 94.99                 | 212.41                            | 9,988.64   | 865.76               | 448.22                | 417.54                  | 2.073                     | Minor Risk     |
| 19,000.00                                                                                                 | 8,835.00            | 19,007.45           | 8,910.00            | 211.10          | 211.39      | 94.99                 | 213.51                            | 10,088.64  | 865.26               | 443.68                | 421.57                  | 2.052                     | Minor Risk     |
| 19,100.00                                                                                                 | 8,835.00            | 19,107.45           | 8,910.00            | 213.12          | 213.41      | 95.00                 | 214.61                            | 10,188.63  | 864.75               | 439.15                | 425.60                  | 2.032                     | Minor Risk     |
| 19,200.00                                                                                                 | 8,835.00            | 19,207.45           | 8,910.00            | 215.15          | 215.44      | 95.00                 | 215.71                            | 10,288.62  | 864.25               | 434.62                | 429.63                  | 2.012                     | Minor Risk     |
| 19,308.27                                                                                                 | 8,835.00            | 19,300.82           | 8,910.00            | 217.34          | 217.33      | 95.00                 | 216.90                            | 10,396.88  | 863.71               | 430.01                | 433.70                  | 1.991                     | Minor Risk, SF |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 431-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                         | 0.00                | 15.22               | 15.22               | 0.50            | 0.50        | -177.19               | -1,704.21                         | -83.63     | 1,706.27             |                       |                         |                   |                    |         |
| 100.00                       | 100.00              | 113.41              | 113.41              | 0.52            | 0.54        | -177.20               | -1,704.29                         | -83.49     | 1,706.33             | 1,705.28              | 1.05                    | 1,620.109         |                    |         |
| 200.00                       | 200.00              | 211.60              | 211.60              | 0.70            | 0.61        | -177.21               | -1,704.48                         | -83.15     | 1,706.51             | 1,705.19              | 1.32                    | 1,295.968         |                    |         |
| 300.00                       | 300.00              | 309.79              | 309.79              | 0.99            | 0.72        | -177.23               | -1,704.78                         | -82.59     | 1,706.79             | 1,705.08              | 1.71                    | 997.428           |                    |         |
| 400.00                       | 400.00              | 407.98              | 407.97              | 1.31            | 0.85        | -177.25               | -1,705.20                         | -81.83     | 1,707.18             | 1,705.02              | 2.16                    | 790.128           |                    |         |
| 500.00                       | 500.00              | 501.77              | 501.76              | 1.65            | 1.10        | -177.28               | -1,705.80                         | -80.99     | 1,707.77             | 1,705.02              | 2.75                    | 621.508           |                    |         |
| 600.00                       | 600.00              | 605.09              | 605.07              | 1.99            | 1.44        | -177.31               | -1,706.63                         | -80.21     | 1,708.55             | 1,705.12              | 3.43                    | 497.854           |                    |         |
| 700.00                       | 700.00              | 705.50              | 705.47              | 2.34            | 1.78        | -177.34               | -1,707.26                         | -79.46     | 1,709.14             | 1,705.01              | 4.12                    | 414.584           |                    |         |
| 800.00                       | 800.00              | 806.74              | 806.72              | 2.69            | 2.14        | -177.36               | -1,707.81                         | -78.88     | 1,709.65             | 1,704.83              | 4.82                    | 354.388           |                    |         |
| 900.00                       | 900.00              | 902.03              | 901.99              | 3.04            | 2.47        | -177.37               | -1,708.54                         | -78.52     | 1,710.40             | 1,704.89              | 5.51                    | 310.472           |                    |         |
| 1,000.00                     | 1,000.00            | 1,016.52            | 1,016.48            | 3.40            | 2.87        | -177.40               | -1,708.93                         | -77.68     | 1,710.70             | 1,704.44              | 6.26                    | 273.172           |                    |         |
| 1,100.00                     | 1,100.00            | 1,119.71            | 1,119.67            | 3.75            | 3.23        | -177.42               | -1,708.73                         | -77.03     | 1,710.47             | 1,703.50              | 6.98                    | 245.204           |                    |         |
| 1,200.00                     | 1,200.00            | 1,221.64            | 1,221.60            | 4.11            | 3.58        | -177.45               | -1,708.51                         | -76.12     | 1,710.21             | 1,702.53              | 7.69                    | 222.468           |                    |         |
| 1,300.00                     | 1,300.00            | 1,329.58            | 1,329.53            | 4.46            | 3.96        | -177.50               | -1,707.96                         | -74.67     | 1,709.65             | 1,701.23              | 8.42                    | 203.033           |                    |         |
| 1,400.00                     | 1,400.00            | 1,431.04            | 1,430.98            | 4.82            | 4.31        | -177.54               | -1,707.12                         | -73.47     | 1,708.77             | 1,699.64              | 9.13                    | 187.141           |                    |         |
| 1,500.00                     | 1,500.00            | 1,525.19            | 1,525.11            | 5.18            | 4.64        | -177.58               | -1,706.49                         | -72.16     | 1,708.04             | 1,698.22              | 9.82                    | 173.946           |                    |         |
| 1,600.00                     | 1,600.00            | 1,630.56            | 1,630.47            | 5.53            | 5.02        | -177.62               | -1,705.78                         | -70.92     | 1,707.32             | 1,696.77              | 10.55                   | 161.872           |                    |         |
| 1,700.00                     | 1,700.00            | 1,726.14            | 1,726.05            | 5.89            | 5.35        | -177.65               | -1,705.17                         | -69.88     | 1,706.63             | 1,695.39              | 11.24                   | 151.810           |                    |         |
| 1,800.00                     | 1,800.00            | 1,829.92            | 1,829.81            | 6.25            | 5.72        | -177.70               | -1,704.43                         | -68.48     | 1,705.87             | 1,693.90              | 11.97                   | 142.551           |                    |         |
| 1,900.00                     | 1,900.00            | 1,928.53            | 1,928.41            | 6.61            | 6.07        | -177.74               | -1,703.71                         | -67.10     | 1,705.08             | 1,692.40              | 12.67                   | 134.532           |                    |         |
| 2,000.00                     | 2,000.00            | 2,033.08            | 2,032.95            | 6.96            | 6.44        | -177.79               | -1,702.93                         | -65.73     | 1,704.29             | 1,690.88              | 13.40                   | 127.173           |                    |         |
| 2,100.00                     | 2,099.99            | 2,145.42            | 2,145.28            | 7.32            | 6.83        | -165.04               | -1,701.33                         | -65.14     | 1,703.68             | 1,689.53              | 14.15                   | 120.414           |                    |         |
| 2,104.93                     | 2,104.93            | 2,150.71            | 2,150.57            | 7.34            | 6.85        | -165.04               | -1,701.23                         | -65.13     | 1,703.67             | 1,689.49              | 14.18                   | 120.110 CC        |                    |         |
| 2,200.00                     | 2,199.96            | 2,245.86            | 2,245.70            | 7.68            | 7.18        | -165.06               | -1,699.47                         | -65.17     | 1,704.36             | 1,689.51              | 14.85                   | 114.764           |                    |         |
| 2,300.00                     | 2,299.86            | 2,344.28            | 2,344.10            | 8.04            | 7.51        | -165.07               | -1,697.79                         | -65.46     | 1,706.88             | 1,691.34              | 15.55                   | 109.795           |                    |         |
| 2,400.00                     | 2,399.68            | 2,444.31            | 2,444.12            | 8.39            | 7.86        | -165.10               | -1,696.08                         | -65.81     | 1,711.09             | 1,694.84              | 16.25                   | 105.313           |                    |         |
| 2,500.00                     | 2,499.37            | 2,542.06            | 2,541.85            | 8.75            | 8.20        | -165.14               | -1,694.46                         | -66.03     | 1,717.03             | 1,700.09              | 16.94                   | 101.340           |                    |         |
| 2,600.00                     | 2,598.90            | 2,636.09            | 2,635.88            | 9.11            | 8.52        | -165.20               | -1,693.11                         | -66.00     | 1,724.87             | 1,707.24              | 17.63                   | 97.838            |                    |         |
| 2,700.00                     | 2,698.26            | 2,734.75            | 2,734.53            | 9.46            | 8.87        | -165.28               | -1,691.98                         | -65.57     | 1,734.66             | 1,716.33              | 18.33                   | 94.618            |                    |         |
| 2,800.00                     | 2,797.40            | 2,834.20            | 2,833.97            | 9.82            | 9.22        | -165.35               | -1,690.76                         | -65.84     | 1,746.09             | 1,727.05              | 19.04                   | 91.718            |                    |         |
| 2,900.00                     | 2,896.30            | 2,941.08            | 2,940.84            | 10.18           | 9.59        | -165.44               | -1,689.44                         | -66.03     | 1,759.20             | 1,739.43              | 19.77                   | 88.996            |                    |         |
| 3,000.00                     | 2,994.93            | 3,085.30            | 3,084.98            | 10.54           | 10.09       | -165.58               | -1,684.73                         | -66.77     | 1,771.82             | 1,751.20              | 20.62                   | 85.915            |                    |         |
| 3,100.00                     | 3,093.26            | 3,187.41            | 3,186.99            | 10.90           | 10.45       | -165.68               | -1,680.25                         | -67.04     | 1,785.16             | 1,763.82              | 21.34                   | 83.652            |                    |         |
| 3,195.07                     | 3,186.42            | 3,283.50            | 3,282.99            | 11.24           | 10.79       | -165.78               | -1,675.99                         | -67.37     | 1,799.36             | 1,777.34              | 22.02                   | 81.714            |                    |         |
| 3,200.00                     | 3,191.25            | 3,288.52            | 3,288.00            | 11.26           | 10.81       | -165.79               | -1,675.76                         | -67.39     | 1,800.13             | 1,778.08              | 22.06                   | 81.616            |                    |         |
| 3,300.00                     | 3,289.08            | 3,380.02            | 3,379.42            | 11.62           | 11.13       | -165.93               | -1,671.77                         | -67.66     | 1,815.96             | 1,793.22              | 22.74                   | 79.857            |                    |         |
| 3,400.00                     | 3,386.91            | 3,608.43            | 3,607.07            | 11.98           | 11.94       | -166.16               | -1,654.52                         | -71.51     | 1,828.82             | 1,804.99              | 23.84                   | 76.727            |                    |         |
| 3,500.00                     | 3,484.74            | 3,885.67            | 3,880.87            | 12.35           | 12.94       | -166.38               | -1,612.09                         | -77.32     | 1,835.04             | 1,810.11              | 24.92                   | 73.627            |                    |         |
| 3,600.00                     | 3,582.58            | 4,000.18            | 3,992.71            | 12.72           | 13.37       | -166.39               | -1,588.07                         | -82.42     | 1,834.27             | 1,808.60              | 25.67                   | 71.460            |                    |         |
| 3,700.00                     | 3,680.41            | 4,092.27            | 4,082.46            | 13.09           | 13.72       | -166.36               | -1,568.09                         | -87.46     | 1,832.77             | 1,806.39              | 26.38                   | 69.467            |                    |         |
| 3,760.57                     | 3,739.67            | 4,134.69            | 4,123.89            | 13.31           | 13.88       | -166.35               | -1,559.32                         | -89.90     | 1,832.47             | 1,805.68              | 26.80                   | 68.386            |                    |         |
| 3,800.00                     | 3,778.24            | 4,171.63            | 4,160.03            | 13.46           | 14.02       | -166.33               | -1,551.94                         | -92.03     | 1,832.56             | 1,805.48              | 27.08                   | 67.673            |                    |         |
| 3,900.00                     | 3,876.08            | 4,295.98            | 4,281.48            | 13.83           | 14.51       | -166.32               | -1,525.95                         | -98.00     | 1,831.80             | 1,803.94              | 27.85                   | 65.770            |                    |         |
| 4,000.00                     | 3,973.91            | 4,386.44            | 4,369.78            | 14.21           | 14.86       | -166.33               | -1,506.69                         | -101.87    | 1,830.68             | 1,802.11              | 28.57                   | 64.073            |                    |         |
| 4,100.00                     | 4,071.74            | 4,481.88            | 4,463.12            | 14.58           | 15.24       | -166.34               | -1,487.21                         | -106.05    | 1,830.45             | 1,801.15              | 29.30                   | 62.469            |                    |         |
| 4,200.00                     | 4,169.57            | 4,597.27            | 4,575.83            | 14.96           | 15.70       | -166.38               | -1,462.79                         | -110.01    | 1,829.43             | 1,799.36              | 30.07                   | 60.847            |                    |         |
| 4,300.00                     | 4,267.41            | 4,686.91            | 4,663.38            | 15.33           | 16.06       | -166.43               | -1,443.73                         | -112.45    | 1,828.32             | 1,797.53              | 30.79                   | 59.379            |                    |         |
| 4,382.52                     | 4,348.13            | 4,756.69            | 4,731.66            | 15.64           | 16.34       | -166.47               | -1,429.43                         | -114.33    | 1,828.05             | 1,796.67              | 31.38                   | 58.252            |                    |         |
| 4,400.00                     | 4,365.24            | 4,771.80            | 4,746.45            | 15.71           | 16.40       | -166.48               | -1,426.39                         | -114.76    | 1,828.06             | 1,796.55              | 31.51                   | 58.020            |                    |         |
| 4,500.00                     | 4,463.07            | 4,882.93            | 4,855.29            | 16.09           | 16.85       | -166.54               | -1,404.15                         | -117.86    | 1,828.26             | 1,795.99              | 32.27                   | 56.654            |                    |         |
| 4,600.00                     | 4,560.90            | 4,981.72            | 4,951.90            | 16.47           | 17.25       | -166.64               | -1,383.54                         | -119.17    | 1,827.55             | 1,794.54              | 33.01                   | 55.357            |                    |         |
| 4,643.91                     | 4,603.86            | 5,018.19            | 4,987.60            | 16.63           | 17.40       | -166.68               | -1,376.10                         | -119.47    | 1,827.45             | 1,794.12              | 33.33                   | 54.832            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 431-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 4,700.00                     | 4,658.74            | 5,059.66            | 5,028.25            | 16.85           | 17.56       | -166.73               | -1,367.90                         | -119.86    | 1,827.68             | 1,793.96              | 33.72                   | 54.202            |                    |         |
| 4,800.00                     | 4,756.57            | 5,137.21            | 5,104.41            | 17.23           | 17.88       | -166.81               | -1,353.39                         | -120.89    | 1,829.15             | 1,794.73              | 34.42                   | 53.141            |                    |         |
| 4,900.00                     | 4,854.40            | 5,222.94            | 5,188.78            | 17.61           | 18.22       | -166.89               | -1,338.18                         | -122.17    | 1,831.63             | 1,796.49              | 35.14                   | 52.130            |                    |         |
| 5,000.00                     | 4,952.23            | 5,321.16            | 5,285.50            | 17.99           | 18.62       | -166.97               | -1,321.21                         | -124.13    | 1,834.59             | 1,798.71              | 35.88                   | 51.132            |                    |         |
| 5,100.00                     | 5,050.07            | 5,419.39            | 5,382.19            | 18.37           | 19.01       | -167.06               | -1,303.96                         | -125.88    | 1,837.27             | 1,800.64              | 36.62                   | 50.167            |                    |         |
| 5,200.00                     | 5,147.90            | 5,495.55            | 5,457.29            | 18.75           | 19.32       | -167.13               | -1,291.39                         | -127.18    | 1,840.99             | 1,803.68              | 37.31                   | 49.338            |                    |         |
| 5,300.00                     | 5,245.73            | 5,627.90            | 5,587.87            | 19.14           | 19.85       | -167.29               | -1,269.80                         | -127.97    | 1,845.12             | 1,806.98              | 38.14                   | 48.379            |                    |         |
| 5,400.00                     | 5,343.56            | 5,743.00            | 5,700.91            | 19.52           | 20.32       | -167.49               | -1,248.19                         | -126.92    | 1,846.48             | 1,807.55              | 38.92                   | 47.441            |                    |         |
| 5,500.00                     | 5,441.40            | 5,846.52            | 5,802.66            | 19.90           | 20.75       | -167.65               | -1,229.14                         | -126.58    | 1,848.34             | 1,808.66              | 39.68                   | 46.582            |                    |         |
| 5,600.00                     | 5,539.23            | 5,977.09            | 5,930.65            | 20.29           | 21.29       | -167.78               | -1,203.41                         | -128.25    | 1,848.81             | 1,808.31              | 40.49                   | 45.658            |                    |         |
| 5,605.50                     | 5,544.61            | 5,980.79            | 5,934.27            | 20.31           | 21.30       | -167.78               | -1,202.66                         | -128.36    | 1,848.80             | 1,808.27              | 40.53                   | 45.614            |                    |         |
| 5,700.00                     | 5,637.06            | 6,044.42            | 5,996.66            | 20.67           | 21.57       | -167.81               | -1,190.32                         | -130.51    | 1,849.59             | 1,808.41              | 41.18                   | 44.912            |                    |         |
| 5,800.00                     | 5,734.90            | 6,143.00            | 6,093.47            | 21.05           | 21.98       | -167.82               | -1,172.23                         | -134.70    | 1,851.47             | 1,809.54              | 41.93                   | 44.152            |                    |         |
| 5,900.00                     | 5,832.73            | 6,283.81            | 6,231.43            | 21.44           | 22.57       | -167.83               | -1,144.72                         | -140.72    | 1,852.17             | 1,809.39              | 42.77                   | 43.303            |                    |         |
| 6,000.00                     | 5,930.56            | 6,396.04            | 6,340.97            | 21.83           | 23.05       | -167.82               | -1,120.90                         | -146.17    | 1,851.07             | 1,807.52              | 43.55                   | 42.501            |                    |         |
| 6,100.00                     | 6,028.39            | 6,497.45            | 6,439.95            | 22.21           | 23.49       | -167.82               | -1,099.38                         | -151.00    | 1,850.02             | 1,805.71              | 44.32                   | 41.746            |                    |         |
| 6,189.33                     | 6,115.78            | 6,564.67            | 6,505.60            | 22.56           | 23.77       | -167.84               | -1,085.15                         | -153.40    | 1,849.23             | 1,804.27              | 44.95                   | 41.135            |                    |         |
| 6,200.00                     | 6,126.23            | 6,570.64            | 6,511.44            | 22.60           | 23.80       | -167.84               | -1,083.95                         | -153.59    | 1,849.24             | 1,804.21              | 45.03                   | 41.070            |                    |         |
| 6,300.00                     | 6,224.06            | 6,628.00            | 6,567.76            | 22.98           | 24.04       | -167.87               | -1,073.18                         | -155.19    | 1,850.69             | 1,805.00              | 45.69                   | 40.503            |                    |         |
| 6,400.00                     | 6,321.89            | 6,710.03            | 6,648.56            | 23.37           | 24.38       | -167.95               | -1,059.10                         | -156.51    | 1,853.79             | 1,807.39              | 46.40                   | 39.950            |                    |         |
| 6,500.00                     | 6,419.72            | 6,860.18            | 6,796.31            | 23.76           | 25.00       | -168.14               | -1,032.40                         | -157.09    | 1,856.48             | 1,809.21              | 47.27                   | 39.270            |                    |         |
| 6,572.22                     | 6,490.38            | 6,947.79            | 6,882.08            | 24.03           | 25.38       | -168.24               | -1,014.55                         | -157.83    | 1,856.32             | 1,808.47              | 47.85                   | 38.793            |                    |         |
| 6,600.00                     | 6,517.56            | 6,967.58            | 6,901.47            | 24.14           | 25.46       | -168.26               | -1,010.59                         | -157.95    | 1,856.38             | 1,808.34              | 48.05                   | 38.636            |                    |         |
| 6,700.00                     | 6,615.39            | 7,049.07            | 6,981.45            | 24.53           | 25.80       | -168.37               | -994.97                           | -158.28    | 1,857.49             | 1,808.72              | 48.77                   | 38.089            |                    |         |
| 6,800.00                     | 6,713.22            | 7,162.24            | 7,092.55            | 24.92           | 26.28       | -168.48               | -973.50                           | -159.77    | 1,858.83             | 1,809.27              | 49.55                   | 37.511            |                    |         |
| 6,900.00                     | 6,811.05            | 7,265.96            | 7,194.19            | 25.30           | 26.72       | -168.57               | -952.88                           | -161.53    | 1,859.21             | 1,808.89              | 50.32                   | 36.947            |                    |         |
| 7,000.00                     | 6,908.89            | 7,334.05            | 7,261.00            | 25.69           | 27.01       | -168.64               | -939.80                           | -162.58    | 1,860.40             | 1,809.39              | 51.01                   | 36.471            |                    |         |
| 7,100.00                     | 7,006.72            | 7,391.00            | 7,317.13            | 26.08           | 27.25       | -168.70               | -930.18                           | -163.25    | 1,863.82             | 1,812.17              | 51.65                   | 36.083            |                    |         |
| 7,200.00                     | 7,104.55            | 7,504.43            | 7,429.02            | 26.47           | 27.71       | -168.82               | -911.57                           | -164.45    | 1,867.75             | 1,815.30              | 52.45                   | 35.612            |                    |         |
| 7,216.87                     | 7,121.05            | 7,515.89            | 7,440.32            | 26.53           | 27.76       | -168.83               | -909.70                           | -164.58    | 1,868.42             | 1,815.86              | 52.56                   | 35.548            |                    |         |
| 7,300.00                     | 7,202.57            | 7,572.38            | 7,496.12            | 26.85           | 27.99       | -168.89               | -900.92                           | -165.29    | 1,871.56             | 1,818.45              | 53.11                   | 35.240            |                    |         |
| 7,400.00                     | 7,301.06            | 7,627.10            | 7,550.31            | 27.23           | 28.21       | -168.93               | -893.41                           | -166.16    | 1,874.84             | 1,821.14              | 53.70                   | 34.912            |                    |         |
| 7,500.00                     | 7,399.97            | 7,681.20            | 7,604.07            | 27.61           | 28.42       | -168.96               | -887.40                           | -167.32    | 1,878.09             | 1,823.83              | 54.26                   | 34.610            |                    |         |
| 7,600.00                     | 7,499.23            | 7,792.27            | 7,714.50            | 27.98           | 28.84       | -169.01               | -875.70                           | -168.90    | 1,879.38             | 1,824.33              | 55.04                   | 34.144            |                    |         |
| 7,700.00                     | 7,598.77            | 7,868.00            | 7,789.86            | 28.34           | 29.13       | -169.06               | -868.21                           | -168.55    | 1,878.80             | 1,823.13              | 55.67                   | 33.750            |                    |         |
| 7,800.00                     | 7,698.53            | 7,927.74            | 7,849.38            | 28.70           | 29.35       | -169.13               | -863.29                           | -167.32    | 1,877.36             | 1,821.16              | 56.20                   | 33.404            |                    |         |
| 7,900.00                     | 7,798.44            | 7,999.44            | 7,920.90            | 29.05           | 29.60       | -169.21               | -858.73                           | -165.12    | 1,875.24             | 1,818.47              | 56.77                   | 33.032            |                    |         |
| 8,000.00                     | 7,898.42            | 8,090.17            | 8,011.49            | 29.39           | 29.93       | -169.22               | -853.89                           | -164.75    | 1,871.55             | 1,814.12              | 57.43                   | 32.591            |                    |         |
| 8,013.58                     | 7,912.00            | 8,104.80            | 8,026.10            | 29.43           | 29.98       | 178.00                | -853.13                           | -164.88    | 1,870.86             | 1,813.34              | 57.53                   | 32.522            |                    |         |
| 8,100.00                     | 7,998.42            | 8,184.31            | 8,105.50            | 29.73           | 30.26       | 178.03                | -848.95                           | -165.98    | 1,866.30             | 1,808.20              | 58.09                   | 32.126            |                    |         |
| 8,200.00                     | 8,098.42            | 8,262.08            | 8,183.20            | 30.07           | 30.53       | 178.06                | -845.70                           | -166.86    | 1,862.06             | 1,803.39              | 58.67                   | 31.737            |                    |         |
| 8,300.00                     | 8,198.42            | 8,361.44            | 8,282.48            | 30.41           | 30.87       | 178.08                | -842.05                           | -167.89    | 1,858.35             | 1,798.99              | 59.36                   | 31.305            |                    |         |
| 8,363.62                     | 8,262.04            | 8,424.07            | 8,344.99            | 30.62           | 31.09       | 177.99                | -839.65                           | -164.92    | 1,856.02             | 1,796.22              | 59.80                   | 31.038            |                    |         |
| 8,400.00                     | 8,298.40            | 8,467.80            | 8,388.38            | 30.75           | 31.23       | 88.36                 | -837.84                           | -159.95    | 1,854.63             | 1,794.55              | 60.08                   | 30.868            |                    |         |
| 8,450.00                     | 8,348.10            | 8,513.78            | 8,433.18            | 30.91           | 31.38       | 88.41                 | -835.63                           | -149.97    | 1,852.44             | 1,792.05              | 60.39                   | 30.675            |                    |         |
| 8,500.00                     | 8,397.14            | 8,552.66            | 8,470.03            | 31.07           | 31.50       | 88.46                 | -833.88                           | -137.74    | 1,850.43             | 1,789.78              | 60.65                   | 30.508            |                    |         |
| 8,550.00                     | 8,445.15            | 8,590.82            | 8,505.03            | 31.23           | 31.61       | 88.49                 | -832.26                           | -122.65    | 1,848.59             | 1,787.68              | 60.91                   | 30.350            |                    |         |
| 8,600.00                     | 8,491.77            | 8,621.36            | 8,531.99            | 31.38           | 31.69       | 88.53                 | -831.17                           | -108.36    | 1,847.09             | 1,785.97              | 61.12                   | 30.221            |                    |         |
| 8,650.00                     | 8,536.65            | 8,644.92            | 8,552.04            | 31.52           | 31.75       | 88.56                 | -830.55                           | -96.01     | 1,846.07             | 1,784.79              | 61.28                   | 30.123            |                    |         |
| 8,700.00                     | 8,579.43            | 8,677.00            | 8,578.17            | 31.66           | 31.83       | 88.53                 | -830.29                           | -77.42     | 1,845.81             | 1,784.32              | 61.49                   | 30.017            |                    |         |
| 8,712.37                     | 8,589.66            | 8,677.00            | 8,578.17            | 31.70           | 31.83       | 88.54                 | -830.29                           | -77.42     | 1,845.77             | 1,784.27              | 61.50                   | 30.013            |                    |         |
| 8,750.00                     | 8,619.80            | 8,688.73            | 8,587.40            | 31.80           | 31.85       | 88.50                 | -830.36                           | -70.17     | 1,846.05             | 1,784.47              | 61.59                   | 29.975            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 431-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 8,800.00                     | 8,657.44            | 8,714.25            | 8,606.94            | 31.93           | 31.90       | 88.43                 | -830.73                           | -53.77     | 1,846.94             | 1,785.18              | 61.76                   | 29.904            |                    |         |
| 8,850.00                     | 8,692.08            | 8,772.66            | 8,648.60            | 32.06           | 32.00       | 88.39                 | -831.88                           | -12.90     | 1,848.12             | 1,785.96              | 62.16                   | 29.732            |                    |         |
| 8,900.00                     | 8,723.44            | 8,882.37            | 8,716.38            | 32.19           | 32.16       | 88.35                 | -830.98                           | 73.26      | 1,847.83             | 1,784.88              | 62.95                   | 29.355            |                    |         |
| 8,950.00                     | 8,751.29            | 8,922.05            | 8,738.13            | 32.34           | 32.22       | 88.42                 | -830.13                           | 106.44     | 1,847.02             | 1,783.69              | 63.32                   | 29.169            |                    |         |
| 9,000.00                     | 8,775.42            | 8,986.01            | 8,769.14            | 32.50           | 32.33       | 88.53                 | -828.48                           | 162.33     | 1,845.99             | 1,782.04              | 63.95                   | 28.868            |                    |         |
| 9,050.00                     | 8,795.64            | 9,050.00            | 8,797.12            | 32.67           | 32.54       | 88.72                 | -826.01                           | 222.54     | 1,844.35             | 1,779.69              | 64.66                   | 28.525            |                    |         |
| 9,100.00                     | 8,811.80            | 9,103.70            | 8,816.53            | 32.87           | 32.87       | 89.00                 | -823.73                           | 269.89     | 1,842.34             | 1,776.98              | 65.35                   | 28.191            |                    |         |
| 9,150.00                     | 8,823.77            | 9,143.40            | 8,829.42            | 33.10           | 33.20       | 89.29                 | -822.11                           | 307.41     | 1,840.51             | 1,774.53              | 65.97                   | 27.897            |                    |         |
| 9,200.00                     | 8,831.47            | 9,185.44            | 8,840.90            | 33.34           | 33.61       | 89.61                 | -820.57                           | 347.81     | 1,838.89             | 1,772.21              | 66.68                   | 27.579            |                    |         |
| 9,250.00                     | 8,834.84            | 9,243.45            | 8,853.83            | 33.60           | 34.24       | 90.06                 | -818.46                           | 404.32     | 1,837.33             | 1,769.70              | 67.64                   | 27.165            |                    |         |
| 9,263.62                     | 8,835.00            | 9,259.66            | 8,857.05            | 33.67           | 34.43       | 90.20                 | -817.79                           | 420.19     | 1,836.84             | 1,768.93              | 67.92                   | 27.046            |                    |         |
| 9,300.00                     | 8,835.00            | 9,316.09            | 8,866.57            | 33.88           | 35.13       | 90.50                 | -815.25                           | 475.75     | 1,835.48             | 1,766.60              | 68.88                   | 26.648            |                    |         |
| 9,400.00                     | 8,835.00            | 9,464.13            | 8,881.12            | 34.53           | 37.24       | 90.96                 | -804.39                           | 622.64     | 1,828.50             | 1,756.78              | 71.72                   | 25.494            |                    |         |
| 9,500.00                     | 8,835.00            | 9,542.56            | 8,886.55            | 35.30           | 38.49       | 91.14                 | -798.49                           | 700.66     | 1,821.71             | 1,747.95              | 73.76                   | 24.697            |                    |         |
| 9,600.00                     | 8,835.00            | 9,619.52            | 8,890.89            | 36.17           | 39.79       | 91.28                 | -793.83                           | 777.36     | 1,816.35             | 1,740.40              | 75.95                   | 23.916            |                    |         |
| 9,700.00                     | 8,835.00            | 9,695.63            | 8,893.97            | 37.13           | 41.15       | 91.38                 | -790.03                           | 853.31     | 1,812.08             | 1,733.81              | 78.26                   | 23.153            |                    |         |
| 9,800.00                     | 8,835.00            | 9,756.49            | 8,895.34            | 38.18           | 42.28       | 91.42                 | -788.17                           | 914.12     | 1,809.67             | 1,729.25              | 80.42                   | 22.504            |                    |         |
| 9,900.00                     | 8,835.00            | 9,840.09            | 8,896.17            | 39.31           | 43.91       | 91.45                 | -787.09                           | 997.71     | 1,808.96             | 1,725.81              | 83.15                   | 21.755            |                    |         |
| 10,000.00                    | 8,835.00            | 9,938.78            | 8,897.33            | 40.51           | 45.90       | 91.48                 | -786.15                           | 1,096.39   | 1,808.63             | 1,722.28              | 86.36                   | 20.944            |                    |         |
| 10,067.49                    | 8,835.00            | 9,999.98            | 8,898.31            | 41.36           | 47.18       | 91.51                 | -785.60                           | 1,157.58   | 1,808.47             | 1,719.98              | 88.49                   | 20.437            |                    |         |
| 10,100.00                    | 8,835.00            | 10,027.53           | 8,898.59            | 41.78           | 47.77       | 91.52                 | -785.47                           | 1,185.13   | 1,808.51             | 1,719.03              | 89.48                   | 20.211            |                    |         |
| 10,200.00                    | 8,835.00            | 10,158.81           | 8,898.97            | 43.10           | 50.63       | 91.54                 | -784.38                           | 1,316.40   | 1,808.40             | 1,714.67              | 93.73                   | 19.294            |                    |         |
| 10,300.00                    | 8,835.00            | 10,273.05           | 8,899.33            | 44.49           | 53.22       | 91.55                 | -781.66                           | 1,430.61   | 1,806.64             | 1,708.91              | 97.73                   | 18.486            |                    |         |
| 10,400.00                    | 8,835.00            | 10,385.08           | 8,900.19            | 45.92           | 55.82       | 91.58                 | -777.88                           | 1,542.57   | 1,803.86             | 1,702.07              | 101.79                  | 17.721            |                    |         |
| 10,500.00                    | 8,835.00            | 10,477.79           | 8,902.36            | 47.39           | 58.03       | 91.65                 | -774.72                           | 1,635.20   | 1,801.11             | 1,695.65              | 105.47                  | 17.078            |                    |         |
| 10,600.00                    | 8,835.00            | 10,572.24           | 8,904.21            | 48.91           | 60.31       | 91.71                 | -771.96                           | 1,729.59   | 1,798.84             | 1,689.58              | 109.26                  | 16.463            |                    |         |
| 10,700.00                    | 8,835.00            | 10,680.78           | 8,908.41            | 50.47           | 62.97       | 91.85                 | -768.63                           | 1,838.00   | 1,796.50             | 1,683.00              | 113.51                  | 15.827            |                    |         |
| 10,800.00                    | 8,835.00            | 10,789.19           | 8,913.27            | 52.06           | 65.67       | 92.01                 | -764.59                           | 1,946.23   | 1,793.51             | 1,675.70              | 117.81                  | 15.223            |                    |         |
| 10,900.00                    | 8,835.00            | 10,897.25           | 8,917.56            | 53.68           | 68.39       | 92.15                 | -760.20                           | 2,054.11   | 1,790.19             | 1,668.02              | 122.17                  | 14.653            |                    |         |
| 11,000.00                    | 8,835.00            | 10,988.65           | 8,920.27            | 55.32           | 70.71       | 92.24                 | -756.41                           | 2,145.38   | 1,786.76             | 1,660.62              | 126.14                  | 14.165            |                    |         |
| 11,100.00                    | 8,835.00            | 11,078.22           | 8,922.83            | 57.00           | 73.01       | 92.32                 | -753.27                           | 2,234.87   | 1,783.96             | 1,653.86              | 130.10                  | 13.713            |                    |         |
| 11,200.00                    | 8,835.00            | 11,147.07           | 8,925.31            | 58.70           | 74.79       | 92.41                 | -751.44                           | 2,303.65   | 1,782.13             | 1,648.62              | 133.51                  | 13.348            |                    |         |
| 11,233.78                    | 8,835.00            | 11,167.13           | 8,925.95            | 59.28           | 75.31       | 92.43                 | -751.22                           | 2,323.69   | 1,782.00             | 1,647.43              | 134.57                  | 13.242            |                    |         |
| 11,300.00                    | 8,835.00            | 11,210.10           | 8,927.14            | 60.41           | 76.42       | 92.46                 | -751.25                           | 2,366.65   | 1,782.49             | 1,645.74              | 136.75                  | 13.035            |                    |         |
| 11,400.00                    | 8,835.00            | 11,314.60           | 8,930.47            | 62.15           | 79.15       | 92.57                 | -751.85                           | 2,471.09   | 1,783.81             | 1,642.57              | 141.24                  | 12.630            |                    |         |
| 11,500.00                    | 8,835.00            | 11,418.19           | 8,935.08            | 63.91           | 81.88       | 92.72                 | -751.43                           | 2,574.58   | 1,784.19             | 1,638.45              | 145.74                  | 12.243            |                    |         |
| 11,600.00                    | 8,835.00            | 11,486.00           | 8,937.44            | 65.69           | 83.67       | 92.79                 | -752.40                           | 2,642.34   | 1,786.23             | 1,637.07              | 149.16                  | 11.975            |                    |         |
| 11,700.00                    | 8,835.00            | 11,586.79           | 8,939.35            | 67.47           | 86.34       | 92.85                 | -754.79                           | 2,743.08   | 1,789.29             | 1,635.66              | 153.63                  | 11.646            |                    |         |
| 11,800.00                    | 8,835.00            | 11,676.29           | 8,939.84            | 69.28           | 88.72       | 92.86                 | -756.87                           | 2,832.55   | 1,792.24             | 1,634.47              | 157.77                  | 11.360            |                    |         |
| 11,900.00                    | 8,835.00            | 11,818.72           | 8,940.02            | 71.09           | 92.54       | 92.86                 | -758.98                           | 2,974.96   | 1,794.35             | 1,630.75              | 163.60                  | 10.968            |                    |         |
| 12,000.00                    | 8,835.00            | 11,971.04           | 8,937.59            | 72.92           | 96.64       | 92.78                 | -757.25                           | 3,127.25   | 1,793.72             | 1,624.07              | 169.66                  | 10.573            |                    |         |
| 12,100.00                    | 8,835.00            | 12,051.10           | 8,936.10            | 74.76           | 98.80       | 92.74                 | -755.74                           | 3,207.28   | 1,792.32             | 1,618.70              | 173.62                  | 10.323            |                    |         |
| 12,200.00                    | 8,835.00            | 12,141.04           | 8,935.05            | 76.61           | 101.24      | 92.71                 | -754.65                           | 3,297.20   | 1,791.65             | 1,613.76              | 177.88                  | 10.072            |                    |         |
| 12,300.00                    | 8,835.00            | 12,245.23           | 8,933.44            | 78.47           | 104.07      | 92.65                 | -753.61                           | 3,401.37   | 1,791.18             | 1,608.59              | 182.58                  | 9.810             |                    |         |
| 12,400.00                    | 8,835.00            | 12,366.73           | 8,932.52            | 80.34           | 107.39      | 92.63                 | -751.22                           | 3,522.85   | 1,789.73             | 1,601.92              | 187.81                  | 9.530             |                    |         |
| 12,500.00                    | 8,835.00            | 12,456.10           | 8,933.51            | 82.22           | 109.83      | 92.66                 | -749.21                           | 3,612.19   | 1,788.15             | 1,596.04              | 192.10                  | 9.308             |                    |         |
| 12,600.00                    | 8,835.00            | 12,539.02           | 8,935.53            | 84.11           | 112.10      | 92.73                 | -748.00                           | 3,695.07   | 1,787.39             | 1,591.18              | 196.21                  | 9.109             |                    |         |
| 12,651.16                    | 8,835.00            | 12,585.03           | 8,936.77            | 85.08           | 113.37      | 92.77                 | -747.60                           | 3,741.06   | 1,787.32             | 1,588.89              | 198.43                  | 9.007             |                    |         |
| 12,700.00                    | 8,835.00            | 12,629.08           | 8,937.79            | 86.00           | 114.58      | 92.80                 | -747.35                           | 3,785.10   | 1,787.39             | 1,586.84              | 200.54                  | 8.913             |                    |         |
| 12,800.00                    | 8,835.00            | 12,724.75           | 8,939.90            | 87.90           | 117.21      | 92.87                 | -747.08                           | 3,880.74   | 1,787.81             | 1,582.75              | 205.06                  | 8.719             |                    |         |
| 12,900.00                    | 8,835.00            | 12,859.84           | 8,944.34            | 89.81           | 120.93      | 93.01                 | -745.02                           | 4,015.74   | 1,786.94             | 1,576.17              | 210.77                  | 8.478             |                    |         |
| 13,000.00                    | 8,835.00            | 12,970.44           | 8,949.41            | 91.72           | 123.99      | 93.18                 | -742.30                           | 4,126.19   | 1,785.33             | 1,569.60              | 215.74                  | 8.275             |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 431-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 13,100.00                    | 8,835.00            | 13,068.80           | 8,953.78            | 93.64           | 126.71      | 93.32                 | -739.32                           | 4,224.41   | 1,783.16             | 1,562.81              | 220.36                  | 8.092             |                    |         |
| 13,200.00                    | 8,835.00            | 13,154.50           | 8,956.15            | 95.56           | 129.08      | 93.40                 | -737.32                           | 4,310.05   | 1,781.59             | 1,556.98              | 224.61                  | 7.932             |                    |         |
| 13,300.00                    | 8,835.00            | 13,255.74           | 8,956.61            | 97.49           | 131.89      | 93.42                 | -735.76                           | 4,411.28   | 1,780.68             | 1,551.34              | 229.34                  | 7.764             |                    |         |
| 13,400.00                    | 8,835.00            | 13,364.48           | 8,956.16            | 99.42           | 134.90      | 93.41                 | -733.46                           | 4,519.99   | 1,779.13             | 1,544.83              | 234.30                  | 7.593             |                    |         |
| 13,500.00                    | 8,835.00            | 13,459.45           | 8,956.37            | 101.36          | 137.54      | 93.41                 | -731.35                           | 4,614.93   | 1,777.52             | 1,538.66              | 238.87                  | 7.442             |                    |         |
| 13,600.00                    | 8,835.00            | 13,557.93           | 8,958.74            | 103.30          | 140.29      | 93.49                 | -729.31                           | 4,713.36   | 1,776.20             | 1,532.67              | 243.53                  | 7.294             |                    |         |
| 13,700.00                    | 8,835.00            | 13,651.69           | 8,960.97            | 105.25          | 142.90      | 93.57                 | -727.50                           | 4,807.08   | 1,775.01             | 1,526.95              | 248.06                  | 7.156             |                    |         |
| 13,800.00                    | 8,835.00            | 13,758.46           | 8,963.57            | 107.20          | 145.88      | 93.65                 | -725.55                           | 4,913.80   | 1,773.95             | 1,520.97              | 252.98                  | 7.012             |                    |         |
| 13,900.00                    | 8,835.00            | 13,858.68           | 8,967.31            | 109.15          | 148.67      | 93.78                 | -723.32                           | 5,013.92   | 1,772.56             | 1,514.85              | 257.71                  | 6.878             |                    |         |
| 13,992.03                    | 8,835.00            | 13,926.62           | 8,969.74            | 110.95          | 150.57      | 93.86                 | -722.25                           | 5,081.81   | 1,771.89             | 1,510.57              | 261.32                  | 6.781             |                    |         |
| 14,000.00                    | 8,835.00            | 13,932.36           | 8,969.92            | 111.10          | 150.73      | 93.86                 | -722.21                           | 5,087.54   | 1,771.89             | 1,510.27              | 261.62                  | 6.773             |                    |         |
| 14,100.00                    | 8,835.00            | 14,026.70           | 8,972.58            | 113.06          | 153.37      | 93.95                 | -721.97                           | 5,181.85   | 1,772.41             | 1,506.23              | 266.18                  | 6.659             |                    |         |
| 14,200.00                    | 8,835.00            | 14,131.20           | 8,975.26            | 115.03          | 156.30      | 94.04                 | -721.47                           | 5,286.31   | 1,772.71             | 1,501.65              | 271.06                  | 6.540             |                    |         |
| 14,300.00                    | 8,835.00            | 14,248.46           | 8,978.03            | 116.99          | 159.59      | 94.13                 | -720.31                           | 5,403.53   | 1,772.49             | 1,496.15              | 276.35                  | 6.414             |                    |         |
| 14,400.00                    | 8,835.00            | 14,352.07           | 8,980.49            | 118.96          | 162.49      | 94.21                 | -718.65                           | 5,507.10   | 1,771.67             | 1,490.47              | 281.20                  | 6.300             |                    |         |
| 14,500.00                    | 8,835.00            | 14,461.70           | 8,982.93            | 120.93          | 165.57      | 94.29                 | -716.24                           | 5,616.68   | 1,770.22             | 1,483.98              | 286.23                  | 6.184             |                    |         |
| 14,600.00                    | 8,835.00            | 14,555.01           | 8,984.93            | 122.90          | 168.19      | 94.36                 | -714.44                           | 5,709.95   | 1,769.04             | 1,478.25              | 290.79                  | 6.084             |                    |         |
| 14,700.00                    | 8,835.00            | 14,660.76           | 8,987.58            | 124.88          | 171.16      | 94.45                 | -712.01                           | 5,815.64   | 1,767.52             | 1,471.81              | 295.71                  | 5.977             |                    |         |
| 14,800.00                    | 8,835.00            | 14,739.12           | 8,989.46            | 126.86          | 173.36      | 94.51                 | -710.55                           | 5,893.96   | 1,766.49             | 1,466.68              | 299.81                  | 5.892             |                    |         |
| 14,810.39                    | 8,835.00            | 14,745.28           | 8,989.61            | 127.06          | 173.53      | 94.52                 | -710.50                           | 5,900.12   | 1,766.48             | 1,466.31              | 300.17                  | 5.885             |                    |         |
| 14,900.00                    | 8,835.00            | 14,798.37           | 8,990.97            | 128.84          | 175.03      | 94.56                 | -710.62                           | 5,953.20   | 1,767.41             | 1,464.19              | 303.22                  | 5.829             |                    |         |
| 15,000.00                    | 8,835.00            | 14,901.65           | 8,993.52            | 130.82          | 177.94      | 94.64                 | -712.20                           | 6,056.42   | 1,769.73             | 1,461.63              | 308.10                  | 5.744             |                    |         |
| 15,100.00                    | 8,835.00            | 15,008.54           | 8,995.53            | 132.80          | 180.95      | 94.70                 | -713.18                           | 6,163.29   | 1,771.40             | 1,458.28              | 313.11                  | 5.657             |                    |         |
| 15,200.00                    | 8,835.00            | 15,099.30           | 8,997.20            | 134.79          | 183.51      | 94.75                 | -714.12                           | 6,254.04   | 1,773.17             | 1,455.60              | 317.57                  | 5.584             |                    |         |
| 15,300.00                    | 8,835.00            | 15,216.64           | 9,000.03            | 136.78          | 186.82      | 94.83                 | -715.01                           | 6,371.34   | 1,774.73             | 1,451.79              | 322.94                  | 5.496             |                    |         |
| 15,400.00                    | 8,835.00            | 15,333.05           | 9,003.09            | 138.76          | 190.10      | 94.93                 | -714.62                           | 6,487.70   | 1,775.19             | 1,446.95              | 328.24                  | 5.408             |                    |         |
| 15,500.00                    | 8,835.00            | 15,445.49           | 9,006.95            | 140.76          | 193.28      | 95.06                 | -713.43                           | 6,600.07   | 1,775.04             | 1,441.65              | 333.39                  | 5.324             |                    |         |
| 15,600.00                    | 8,835.00            | 15,549.09           | 9,009.56            | 142.75          | 196.20      | 95.14                 | -711.75                           | 6,703.63   | 1,774.24             | 1,435.97              | 338.27                  | 5.245             |                    |         |
| 15,700.00                    | 8,835.00            | 15,643.05           | 9,011.77            | 144.74          | 198.85      | 95.22                 | -710.39                           | 6,797.55   | 1,773.60             | 1,430.75              | 342.86                  | 5.173             |                    |         |
| 15,800.00                    | 8,835.00            | 15,777.48           | 9,016.67            | 146.74          | 202.65      | 95.38                 | -707.47                           | 6,931.84   | 1,772.43             | 1,423.83              | 348.60                  | 5.084             |                    |         |
| 15,900.00                    | 8,835.00            | 15,874.12           | 9,021.29            | 148.73          | 205.37      | 95.54                 | -704.09                           | 7,028.30   | 1,769.99             | 1,416.75              | 353.24                  | 5.011             |                    |         |
| 16,000.00                    | 8,835.00            | 15,942.81           | 9,023.01            | 150.73          | 207.31      | 95.60                 | -702.62                           | 7,096.96   | 1,768.70             | 1,411.61              | 357.09                  | 4.953 Alert       |                    |         |
| 16,038.62                    | 8,835.00            | 15,974.17           | 9,023.31            | 151.50          | 208.20      | 95.61                 | -702.36                           | 7,128.32   | 1,768.64             | 1,409.93              | 358.71                  | 4.931 Alert       |                    |         |
| 16,100.00                    | 8,835.00            | 16,028.78           | 9,023.64            | 152.73          | 209.74      | 95.62                 | -702.10                           | 7,182.92   | 1,768.75             | 1,407.32              | 361.44                  | 4.894 Alert       |                    |         |
| 16,200.00                    | 8,835.00            | 16,115.36           | 9,023.86            | 154.73          | 212.19      | 95.62                 | -702.21                           | 7,269.50   | 1,769.50             | 1,403.71              | 365.79                  | 4.837 Alert       |                    |         |
| 16,300.00                    | 8,835.00            | 16,229.24           | 9,023.68            | 156.73          | 215.41      | 95.61                 | -702.67                           | 7,383.38   | 1,770.51             | 1,399.43              | 371.08                  | 4.771 Alert       |                    |         |
| 16,400.00                    | 8,835.00            | 16,318.56           | 9,023.09            | 158.74          | 217.94      | 95.59                 | -702.70                           | 7,472.69   | 1,771.08             | 1,395.54              | 375.55                  | 4.716 Alert       |                    |         |
| 16,500.00                    | 8,835.00            | 16,445.95           | 9,021.77            | 160.74          | 221.55      | 95.55                 | -702.41                           | 7,600.08   | 1,771.37             | 1,390.10              | 381.27                  | 4.646 Alert       |                    |         |
| 16,600.00                    | 8,835.00            | 16,548.65           | 9,020.71            | 162.74          | 224.46      | 95.52                 | -701.04                           | 7,702.76   | 1,770.53             | 1,384.34              | 386.19                  | 4.585 Alert       |                    |         |
| 16,676.35                    | 8,835.00            | 16,611.94           | 9,020.55            | 164.28          | 226.25      | 95.51                 | -700.44                           | 7,766.05   | 1,770.25             | 1,380.79              | 389.46                  | 4.545 Alert       |                    |         |
| 16,700.00                    | 8,835.00            | 16,633.29           | 9,020.63            | 164.75          | 226.86      | 95.51                 | -700.33                           | 7,787.40   | 1,770.27             | 1,379.74              | 390.53                  | 4.533 Alert       |                    |         |
| 16,800.00                    | 8,835.00            | 16,727.53           | 9,022.04            | 166.76          | 229.53      | 95.56                 | -699.94                           | 7,881.63   | 1,770.59             | 1,375.45              | 395.14                  | 4.481 Alert       |                    |         |
| 16,900.00                    | 8,835.00            | 16,829.13           | 9,024.46            | 168.77          | 232.41      | 95.64                 | -699.51                           | 7,983.19   | 1,771.00             | 1,371.02              | 399.98                  | 4.428 Alert       |                    |         |
| 17,000.00                    | 8,835.00            | 16,931.00           | 9,026.50            | 170.77          | 235.30      | 95.70                 | -699.05                           | 8,085.04   | 1,771.34             | 1,366.51              | 404.83                  | 4.376 Alert       |                    |         |
| 17,100.00                    | 8,835.00            | 17,032.76           | 9,028.36            | 172.78          | 238.19      | 95.76                 | -698.40                           | 8,186.79   | 1,771.48             | 1,361.80              | 409.68                  | 4.324 Alert       |                    |         |
| 17,200.00                    | 8,835.00            | 17,129.02           | 9,031.23            | 174.79          | 240.92      | 95.85                 | -697.83                           | 8,283.01   | 1,771.78             | 1,357.44              | 414.34                  | 4.276 Alert       |                    |         |
| 17,300.00                    | 8,835.00            | 17,228.74           | 9,034.22            | 176.81          | 243.75      | 95.95                 | -697.32                           | 8,382.68   | 1,772.18             | 1,353.08              | 419.10                  | 4.229 Alert       |                    |         |
| 17,400.00                    | 8,835.00            | 17,331.23           | 9,037.19            | 178.82          | 246.65      | 96.05                 | -696.76                           | 8,485.12   | 1,772.53             | 1,348.58              | 423.96                  | 4.181 Alert       |                    |         |
| 17,500.00                    | 8,835.00            | 17,437.49           | 9,039.92            | 180.83          | 249.67      | 96.13                 | -695.95                           | 8,591.34   | 1,772.64             | 1,343.70              | 428.93                  | 4.133 Alert       |                    |         |
| 17,600.00                    | 8,835.00            | 17,542.19           | 9,042.23            | 182.84          | 252.64      | 96.21                 | -694.81                           | 8,696.01   | 1,772.38             | 1,338.52              | 433.86                  | 4.085 Alert       |                    |         |
| 17,700.00                    | 8,835.00            | 17,656.30           | 9,044.14            | 184.86          | 255.88      | 96.28                 | -693.13                           | 8,810.09   | 1,771.70             | 1,332.63              | 439.08                  | 4.035 Alert       |                    |         |
| 17,800.00                    | 8,835.00            | 17,742.89           | 9,044.45            | 186.87          | 258.34      | 96.29                 | -691.86                           | 8,896.67   | 1,770.88             | 1,327.39              | 443.49                  | 3.993 Alert       |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                |                |                |                 |        |                   |                              |           |                 |                  | Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 335H - Wellbore #1 - Wellbore #1 |                   | Offset Site Error: |  | 0.00 ft |
|------------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------------|-----------|-----------------|------------------|------------------------------------------------------------------------------------|-------------------|--------------------|--|---------|
| Survey Program: 431-MWD+HDGM |                |                |                |                 |        |                   |                              |           |                 |                  |                                                                                    |                   | Offset Well Error: |  | 0.50 ft |
| Reference                    |                | Offset         |                | Semi Major Axis |        |                   | Distance                     |           |                 |                  |                                                                                    |                   |                    |  |         |
| Measured Depth               | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre +N/-S | +E/-W     | Between Centres | Between Ellipses | Minimum Separation                                                                 | Separation Factor | Warning            |  |         |
| (ft)                         | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | (ft)                         | (ft)      | (ft)            | (ft)             | (ft)                                                                               |                   |                    |  |         |
| 17,846.51                    | 8,835.00       | 17,782.40      | 9,044.04       | 187.81          | 259.46 | 96.27             | -691.59                      | 8,936.17  | 1,770.79        | 1,325.26         | 445.53                                                                             | 3.975             | Alert              |  |         |
| 17,900.00                    | 8,835.00       | 17,827.92      | 9,043.52       | 188.89          | 260.75 | 96.26             | -691.48                      | 8,981.70  | 1,770.91        | 1,323.05         | 447.86                                                                             | 3.954             | Alert              |  |         |
| 18,000.00                    | 8,835.00       | 17,930.23      | 9,043.45       | 190.91          | 263.66 | 96.25             | -691.42                      | 9,084.00  | 1,771.44        | 1,318.67         | 452.77                                                                             | 3.912             | Alert              |  |         |
| 18,100.00                    | 8,835.00       | 18,025.63      | 9,046.07       | 192.92          | 266.37 | 96.34             | -690.93                      | 9,179.36  | 1,771.82        | 1,314.43         | 457.40                                                                             | 3.874             | Alert              |  |         |
| 18,200.00                    | 8,835.00       | 18,141.29      | 9,049.90       | 194.94          | 269.66 | 96.46             | -690.10                      | 9,294.96  | 1,772.09        | 1,309.43         | 462.66                                                                             | 3.830             | Alert              |  |         |
| 18,238.14                    | 8,835.00       | 18,174.15      | 9,050.88       | 195.71          | 270.59 | 96.49             | -689.75                      | 9,327.80  | 1,772.04        | 1,307.74         | 464.31                                                                             | 3.817             | Alert              |  |         |
| 18,300.00                    | 8,835.00       | 18,228.90      | 9,052.31       | 196.96          | 272.15 | 96.54             | -689.37                      | 9,382.53  | 1,772.17        | 1,305.14         | 467.03                                                                             | 3.795             | Alert              |  |         |
| 18,400.00                    | 8,835.00       | 18,323.96      | 9,054.35       | 198.98          | 274.85 | 96.60             | -689.10                      | 9,477.57  | 1,772.72        | 1,301.06         | 471.65                                                                             | 3.759             | Alert              |  |         |
| 18,500.00                    | 8,835.00       | 18,440.27      | 9,056.06       | 201.00          | 278.16 | 96.66             | -688.49                      | 9,593.86  | 1,772.96        | 1,295.98         | 476.98                                                                             | 3.717             | Alert              |  |         |
| 18,501.74                    | 8,835.00       | 18,442.31      | 9,056.08       | 201.03          | 278.22 | 96.66             | -688.47                      | 9,595.90  | 1,772.96        | 1,295.88         | 477.08                                                                             | 3.716             | Alert              |  |         |
| 18,600.00                    | 8,835.00       | 18,525.42      | 9,056.23       | 203.02          | 280.58 | 96.66             | -688.32                      | 9,679.01  | 1,773.35        | 1,292.02         | 481.33                                                                             | 3.684             | Alert              |  |         |
| 18,700.00                    | 8,835.00       | 18,642.30      | 9,055.39       | 205.04          | 283.91 | 96.64             | -687.57                      | 9,795.88  | 1,773.17        | 1,286.44         | 486.74                                                                             | 3.643             | Alert              |  |         |
| 18,741.49                    | 8,835.00       | 18,677.56      | 9,055.27       | 205.88          | 284.91 | 96.63             | -687.31                      | 9,831.15  | 1,773.10        | 1,284.55         | 488.55                                                                             | 3.629             | Alert              |  |         |
| 18,800.00                    | 8,835.00       | 18,735.48      | 9,055.47       | 207.06          | 286.56 | 96.64             | -687.03                      | 9,889.06  | 1,773.19        | 1,281.84         | 491.36                                                                             | 3.609             | Alert              |  |         |
| 18,900.00                    | 8,835.00       | 18,857.16      | 9,057.47       | 209.08          | 290.02 | 96.71             | -685.38                      | 10,010.71 | 1,772.63        | 1,275.82         | 496.80                                                                             | 3.568             | Alert              |  |         |
| 19,000.00                    | 8,835.00       | 18,958.15      | 9,059.05       | 211.10          | 292.89 | 96.76             | -683.15                      | 10,111.66 | 1,771.20        | 1,269.58         | 501.62                                                                             | 3.531             | Alert              |  |         |
| 19,100.00                    | 8,835.00       | 19,061.69      | 9,060.60       | 213.12          | 295.83 | 96.82             | -681.10                      | 10,215.17 | 1,770.01        | 1,263.50         | 506.51                                                                             | 3.495             | Alert              |  |         |
| 19,200.00                    | 8,835.00       | 19,164.73      | 9,062.04       | 215.15          | 298.76 | 96.87             | -678.66                      | 10,318.18 | 1,768.42        | 1,257.03         | 511.39                                                                             | 3.458             | Alert              |  |         |
| 19,221.83                    | 8,835.00       | 19,158.00      | 9,061.95       | 215.59          | 298.57 | 96.87             | -678.82                      | 10,311.45 | 1,768.30        | 1,256.71         | 511.59                                                                             | 3.456             | Alert, ES          |  |         |
| 19,308.27                    | 8,835.00       | 19,158.00      | 9,061.95       | 217.34          | 298.57 | 96.87             | -678.82                      | 10,311.45 | 1,770.41        | 1,258.04         | 512.37                                                                             | 3.455             | Alert, SF          |  |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Site Error: | 0.00 ft |
|---------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 438-MWD+HDGM, 9290-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Well Error: | 0.50 ft |
| Reference                                   |                     | Offset              |                     | Semi Major Axis |             | Distance              |                                   |            |                      |                       |                         |                    |         |
| Measured Depth (ft)                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor  | Warning |
| 0.00                                        | 0.00                | 13.82               | 13.82               | 0.50            | 0.50        | -176.46               | -1,723.38                         | -106.64    | 1,726.67             |                       |                         |                    |         |
| 100.00                                      | 100.00              | 110.43              | 110.42              | 0.52            | 0.53        | -176.46               | -1,723.51                         | -106.51    | 1,726.80             | 1,725.75              | 1.05                    | 1,642.168          |         |
| 200.00                                      | 200.00              | 207.03              | 207.03              | 0.70            | 0.61        | -176.47               | -1,723.84                         | -106.20    | 1,727.12             | 1,725.81              | 1.31                    | 1,315.798          |         |
| 300.00                                      | 300.00              | 303.64              | 303.63              | 0.99            | 0.72        | -176.49               | -1,724.37                         | -105.69    | 1,727.64             | 1,725.94              | 1.70                    | 1,013.764          |         |
| 400.00                                      | 400.00              | 400.24              | 400.23              | 1.31            | 0.84        | -176.52               | -1,725.11                         | -104.99    | 1,728.36             | 1,726.20              | 2.15                    | 803.605            |         |
| 500.00                                      | 500.00              | 496.20              | 496.18              | 1.65            | 1.07        | -176.55               | -1,726.05                         | -104.13    | 1,729.28             | 1,726.56              | 2.72                    | 635.910            |         |
| 600.00                                      | 600.00              | 595.87              | 595.84              | 1.99            | 1.40        | -176.58               | -1,727.19                         | -103.24    | 1,730.38             | 1,726.99              | 3.39                    | 510.419            |         |
| 700.00                                      | 700.00              | 693.41              | 693.37              | 2.34            | 1.73        | -176.60               | -1,728.32                         | -102.62    | 1,731.49             | 1,727.42              | 4.07                    | 425.483            |         |
| 800.00                                      | 800.00              | 792.24              | 792.19              | 2.69            | 2.07        | -176.62               | -1,729.58                         | -102.17    | 1,732.74             | 1,727.98              | 4.76                    | 363.894            |         |
| 900.00                                      | 900.00              | 894.25              | 894.19              | 3.04            | 2.43        | -176.64               | -1,730.88                         | -101.51    | 1,733.97             | 1,728.49              | 5.47                    | 316.939            |         |
| 1,000.00                                    | 1,000.00            | 989.96              | 989.88              | 3.40            | 2.77        | -176.68               | -1,732.21                         | -100.60    | 1,735.30             | 1,729.14              | 6.16                    | 281.618            |         |
| 1,100.00                                    | 1,100.00            | 1,112.58            | 1,112.50            | 3.75            | 3.19        | -176.73               | -1,733.31                         | -99.14     | 1,736.14             | 1,729.20              | 6.94                    | 250.077            |         |
| 1,200.00                                    | 1,200.00            | 1,232.14            | 1,232.04            | 4.11            | 3.59        | -176.70               | -1,732.57                         | -99.90     | 1,735.54             | 1,727.85              | 7.69                    | 225.604            |         |
| 1,300.00                                    | 1,300.00            | 1,343.65            | 1,343.52            | 4.46            | 3.95        | -176.62               | -1,730.92                         | -102.28    | 1,734.19             | 1,725.77              | 8.41                    | 206.129            |         |
| 1,400.00                                    | 1,400.00            | 1,443.47            | 1,443.28            | 4.82            | 4.29        | -176.52               | -1,729.04                         | -105.09    | 1,732.47             | 1,723.37              | 9.10                    | 190.312            |         |
| 1,500.00                                    | 1,500.00            | 1,532.13            | 1,531.89            | 5.18            | 4.59        | -176.44               | -1,727.71                         | -107.50    | 1,731.15             | 1,721.38              | 9.76                    | 177.358            |         |
| 1,600.00                                    | 1,600.00            | 1,630.29            | 1,630.02            | 5.53            | 4.92        | -176.35               | -1,726.61                         | -110.19    | 1,730.20             | 1,719.74              | 10.45                   | 165.516            |         |
| 1,700.00                                    | 1,700.00            | 1,732.81            | 1,732.49            | 5.89            | 5.27        | -176.25               | -1,725.44                         | -112.99    | 1,729.24             | 1,718.07              | 11.16                   | 154.903            |         |
| 1,800.00                                    | 1,800.00            | 1,837.77            | 1,837.40            | 6.25            | 5.64        | -176.15               | -1,723.98                         | -115.93    | 1,728.02             | 1,716.14              | 11.88                   | 145.412            |         |
| 1,900.00                                    | 1,900.00            | 1,936.31            | 1,935.89            | 6.61            | 5.98        | -176.06               | -1,722.45                         | -118.48    | 1,726.65             | 1,714.07              | 12.58                   | 137.213            |         |
| 2,000.00                                    | 2,000.00            | 2,029.15            | 2,028.70            | 6.96            | 6.30        | -175.99               | -1,721.35                         | -120.74    | 1,725.64             | 1,712.38              | 13.27                   | 130.081            |         |
| 2,044.39                                    | 2,044.39            | 2,071.95            | 2,071.49            | 7.12            | 6.45        | -163.17               | -1,720.94                         | -121.80    | 1,725.46             | 1,711.88              | 13.57                   | 127.110            | CC      |
| 2,100.00                                    | 2,099.99            | 2,126.07            | 2,125.58            | 7.32            | 6.64        | -163.13               | -1,720.47                         | -123.20    | 1,725.74             | 1,711.78              | 13.96                   | 123.592            | ES      |
| 2,200.00                                    | 2,199.96            | 2,225.52            | 2,224.99            | 7.68            | 6.99        | -163.06               | -1,719.66                         | -125.99    | 1,727.64             | 1,712.97              | 14.67                   | 117.761            |         |
| 2,300.00                                    | 2,299.86            | 2,327.71            | 2,327.14            | 8.04            | 7.35        | -162.99               | -1,718.74                         | -128.89    | 1,731.13             | 1,715.74              | 15.39                   | 112.495            |         |
| 2,400.00                                    | 2,399.68            | 2,431.14            | 2,430.53            | 8.39            | 7.72        | -162.94               | -1,717.66                         | -131.82    | 1,736.13             | 1,720.02              | 16.11                   | 107.760            |         |
| 2,500.00                                    | 2,499.37            | 2,533.13            | 2,532.46            | 8.75            | 8.08        | -162.89               | -1,716.36                         | -134.91    | 1,742.59             | 1,725.76              | 16.83                   | 103.543            |         |
| 2,600.00                                    | 2,598.90            | 2,629.83            | 2,629.10            | 9.11            | 8.42        | -162.86               | -1,715.14                         | -137.85    | 1,750.73             | 1,733.20              | 17.53                   | 99.869             |         |
| 2,700.00                                    | 2,698.26            | 2,725.07            | 2,724.30            | 9.46            | 8.76        | -162.84               | -1,714.19                         | -140.72    | 1,760.78             | 1,742.56              | 18.23                   | 96.609             |         |
| 2,800.00                                    | 2,797.40            | 2,829.98            | 2,829.15            | 9.82            | 9.13        | -162.84               | -1,713.11                         | -143.67    | 1,772.44             | 1,753.49              | 18.96                   | 93.502             |         |
| 2,900.00                                    | 2,896.30            | 2,928.23            | 2,927.35            | 10.18           | 9.48        | -162.84               | -1,711.94                         | -146.60    | 1,785.63             | 1,765.96              | 19.66                   | 90.808             |         |
| 3,000.00                                    | 2,994.93            | 2,999.57            | 2,998.66            | 10.54           | 9.74        | -162.84               | -1,711.72                         | -148.55    | 1,801.28             | 1,781.01              | 20.27                   | 88.854             |         |
| 3,100.00                                    | 3,093.26            | 3,083.97            | 3,083.05            | 10.90           | 10.04       | -162.88               | -1,712.49                         | -150.29    | 1,819.75             | 1,798.83              | 20.93                   | 86.962             |         |
| 3,195.07                                    | 3,186.42            | 3,173.91            | 3,172.96            | 11.24           | 10.36       | -162.93               | -1,713.70                         | -152.18    | 1,839.25             | 1,817.66              | 21.58                   | 85.216             |         |
| 3,200.00                                    | 3,191.25            | 3,178.73            | 3,177.78            | 11.26           | 10.37       | -162.94               | -1,713.77                         | -152.28    | 1,840.30             | 1,818.68              | 21.62                   | 85.126             |         |
| 3,300.00                                    | 3,289.08            | 3,264.08            | 3,263.10            | 11.62           | 10.67       | -163.06               | -1,715.16                         | -153.63    | 1,861.85             | 1,839.58              | 22.27                   | 83.604             |         |
| 3,400.00                                    | 3,386.91            | 3,346.36            | 3,345.36            | 11.98           | 10.96       | -163.23               | -1,717.31                         | -153.35    | 1,884.24             | 1,861.33              | 22.90                   | 82.264             |         |
| 3,500.00                                    | 3,484.74            | 3,475.17            | 3,474.10            | 12.35           | 11.40       | -163.53               | -1,720.83                         | -151.44    | 1,906.85             | 1,883.13              | 23.72                   | 80.395             |         |
| 3,600.00                                    | 3,582.58            | 3,594.64            | 3,593.55            | 12.72           | 11.80       | -163.79               | -1,721.68                         | -149.87    | 1,927.36             | 1,902.87              | 24.49                   | 78.687             |         |
| 3,700.00                                    | 3,680.41            | 3,685.05            | 3,683.95            | 13.09           | 12.11       | -163.99               | -1,722.15                         | -148.58    | 1,947.72             | 1,922.56              | 25.16                   | 77.406             |         |
| 3,800.00                                    | 3,778.24            | 3,780.71            | 3,779.61            | 13.46           | 12.44       | -164.19               | -1,722.80                         | -147.15    | 1,968.26             | 1,942.41              | 25.85                   | 76.133             |         |
| 3,900.00                                    | 3,876.08            | 3,876.81            | 3,875.69            | 13.83           | 12.77       | -164.39               | -1,723.54                         | -145.84    | 1,988.92             | 1,962.37              | 26.55                   | 74.924             |         |
| 4,000.00                                    | 3,973.91            | 3,975.50            | 3,974.37            | 14.21           | 13.11       | -164.58               | -1,724.28                         | -144.81    | 2,009.59             | 1,982.34              | 27.25                   | 73.742             |         |
| 4,100.00                                    | 4,071.74            | 4,073.90            | 4,072.76            | 14.58           | 13.45       | -164.77               | -1,725.02                         | -143.85    | 2,030.29             | 2,002.33              | 27.96                   | 72.619             |         |
| 4,200.00                                    | 4,169.57            | 4,175.37            | 4,174.23            | 14.96           | 13.80       | -164.95               | -1,725.52                         | -143.05    | 2,050.77             | 2,022.09              | 28.68                   | 71.510             |         |
| 4,300.00                                    | 4,267.41            | 4,265.69            | 4,264.55            | 15.33           | 14.11       | -165.11               | -1,726.16                         | -142.44    | 2,071.47             | 2,042.11              | 29.36                   | 70.566             |         |
| 4,400.00                                    | 4,365.24            | 4,363.96            | 4,362.82            | 15.71           | 14.46       | -165.26               | -1,727.01                         | -142.03    | 2,092.35             | 2,062.28              | 30.07                   | 69.591             |         |
| 4,500.00                                    | 4,463.07            | 4,465.86            | 4,464.70            | 16.09           | 14.82       | -165.42               | -1,727.68                         | -141.80    | 2,113.05             | 2,082.25              | 30.79                   | 68.618             |         |
| 4,600.00                                    | 4,560.90            | 4,563.06            | 4,561.91            | 16.47           | 15.16       | -165.57               | -1,728.30                         | -141.53    | 2,133.74             | 2,102.23              | 31.50                   | 67.729             |         |
| 4,700.00                                    | 4,658.74            | 4,660.46            | 4,659.31            | 16.85           | 15.50       | -165.70               | -1,728.89                         | -141.51    | 2,154.42             | 2,122.20              | 32.22                   | 66.874             |         |
| 4,800.00                                    | 4,756.57            | 4,756.75            | 4,755.59            | 17.23           | 15.84       | -165.84               | -1,729.56                         | -141.50    | 2,175.19             | 2,142.27              | 32.92                   | 66.066             |         |
| 4,900.00                                    | 4,854.40            | 4,856.71            | 4,855.55            | 17.61           | 16.19       | -165.97               | -1,730.23                         | -141.65    | 2,195.96             | 2,162.31              | 33.65                   | 65.260             |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 336H - ST01 - ST01 |         | Offset Site Error: 0.00 ft |  |
|---------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|----------------------------------------------------------------------|---------|----------------------------|--|
| Survey Program: 438-MWD+HDGM, 9290-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: 0.50 ft                                           |         |                            |  |
| Reference                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                                                                      | Warning |                            |  |
| Measured Depth (ft)                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                                                                      |         |                            |  |
|                                             |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   |                                                                      |         |                            |  |
| 5,000.00                                    | 4,952.23            | 4,946.34            | 4,945.17            | 17.99           | 16.51       | -166.08               | -1,730.78                         | -141.82    | 2,216.70             | 2,182.37              | 34.33                   | 64.569            |                                                                      |         |                            |  |
| 5,100.00                                    | 5,050.07            | 5,027.50            | 5,026.32            | 18.37           | 16.79       | -166.16               | -1,731.94                         | -142.93    | 2,238.22             | 2,203.25              | 34.98                   | 63.995            |                                                                      |         |                            |  |
| 5,200.00                                    | 5,147.90            | 5,126.70            | 5,125.49            | 18.75           | 17.14       | -166.24               | -1,733.54                         | -144.93    | 2,259.96             | 2,224.27              | 35.70                   | 63.306            |                                                                      |         |                            |  |
| 5,300.00                                    | 5,245.73            | 5,222.43            | 5,221.18            | 19.14           | 17.48       | -166.31               | -1,735.11                         | -147.02    | 2,281.74             | 2,245.33              | 36.41                   | 62.672            |                                                                      |         |                            |  |
| 5,400.00                                    | 5,343.56            | 5,317.54            | 5,316.25            | 19.52           | 17.82       | -166.37               | -1,736.75                         | -149.13    | 2,303.59             | 2,266.47              | 37.11                   | 62.067            |                                                                      |         |                            |  |
| 5,500.00                                    | 5,441.40            | 5,412.21            | 5,410.88            | 19.90           | 18.16       | -166.43               | -1,738.52                         | -151.50    | 2,325.59             | 2,287.77              | 37.82                   | 61.492            |                                                                      |         |                            |  |
| 5,600.00                                    | 5,539.23            | 5,508.86            | 5,507.44            | 20.29           | 18.50       | -166.45               | -1,740.33                         | -155.34    | 2,347.61             | 2,309.07              | 38.53                   | 60.922            |                                                                      |         |                            |  |
| 5,700.00                                    | 5,637.06            | 5,598.02            | 5,596.46            | 20.67           | 18.82       | -166.45               | -1,742.18                         | -159.86    | 2,369.83             | 2,330.62              | 39.22                   | 60.432            |                                                                      |         |                            |  |
| 5,800.00                                    | 5,734.90            | 5,684.85            | 5,683.16            | 21.05           | 19.13       | -166.45               | -1,744.39                         | -164.02    | 2,392.51             | 2,352.62              | 39.89                   | 59.985            |                                                                      |         |                            |  |
| 5,900.00                                    | 5,832.73            | 5,784.75            | 5,782.92            | 21.44           | 19.48       | -166.46               | -1,747.05                         | -168.53    | 2,415.30             | 2,374.68              | 40.62                   | 59.465            |                                                                      |         |                            |  |
| 6,000.00                                    | 5,930.56            | 5,882.76            | 5,880.81            | 21.83           | 19.83       | -166.47               | -1,749.61                         | -172.76    | 2,438.04             | 2,396.70              | 41.34                   | 58.974            |                                                                      |         |                            |  |
| 6,100.00                                    | 6,028.39            | 5,981.82            | 5,979.76            | 22.21           | 20.19       | -166.49               | -1,752.16                         | -176.69    | 2,460.75             | 2,418.68              | 42.07                   | 58.492            |                                                                      |         |                            |  |
| 6,200.00                                    | 6,126.23            | 6,089.81            | 6,087.64            | 22.60           | 20.57       | -166.52               | -1,754.75                         | -180.58    | 2,483.28             | 2,440.44              | 42.84                   | 57.964            |                                                                      |         |                            |  |
| 6,300.00                                    | 6,224.06            | 6,196.24            | 6,193.99            | 22.98           | 20.95       | -166.55               | -1,756.65                         | -184.51    | 2,505.20             | 2,461.60              | 43.61                   | 57.451            |                                                                      |         |                            |  |
| 6,400.00                                    | 6,321.89            | 6,286.22            | 6,283.90            | 23.37           | 21.27       | -166.58               | -1,758.34                         | -187.63    | 2,527.23             | 2,482.93              | 44.29                   | 57.057            |                                                                      |         |                            |  |
| 6,500.00                                    | 6,419.72            | 6,370.98            | 6,368.59            | 23.76           | 21.58       | -166.61               | -1,760.26                         | -190.48    | 2,549.62             | 2,504.67              | 44.96                   | 56.715            |                                                                      |         |                            |  |
| 6,600.00                                    | 6,517.56            | 6,454.17            | 6,451.70            | 24.14           | 21.87       | -166.64               | -1,762.66                         | -193.07    | 2,572.62             | 2,527.01              | 45.61                   | 56.406            |                                                                      |         |                            |  |
| 6,700.00                                    | 6,615.39            | 6,549.24            | 6,546.68            | 24.53           | 22.22       | -166.68               | -1,765.64                         | -195.92    | 2,595.87             | 2,549.54              | 46.32                   | 56.041            |                                                                      |         |                            |  |
| 6,800.00                                    | 6,713.22            | 6,643.03            | 6,640.36            | 24.92           | 22.55       | -166.71               | -1,768.71                         | -199.25    | 2,619.25             | 2,572.22              | 47.03                   | 55.697            |                                                                      |         |                            |  |
| 6,900.00                                    | 6,811.05            | 6,753.43            | 6,750.61            | 25.30           | 22.95       | -166.72               | -1,772.24                         | -203.89    | 2,642.58             | 2,594.77              | 47.82                   | 55.266            |                                                                      |         |                            |  |
| 7,000.00                                    | 6,908.89            | 6,878.42            | 6,875.53            | 25.69           | 23.40       | -166.78               | -1,774.93                         | -206.91    | 2,664.83             | 2,616.16              | 48.67                   | 54.749            |                                                                      |         |                            |  |
| 7,100.00                                    | 7,006.72            | 6,986.12            | 6,983.20            | 26.08           | 23.78       | -166.86               | -1,776.65                         | -208.60    | 2,686.58             | 2,637.14              | 49.45                   | 54.334            |                                                                      |         |                            |  |
| 7,200.00                                    | 7,104.55            | 7,087.18            | 7,084.25            | 26.47           | 24.14       | -166.94               | -1,777.92                         | -209.69    | 2,708.00             | 2,657.81              | 50.19                   | 53.958            |                                                                      |         |                            |  |
| 7,216.87                                    | 7,121.05            | 7,100.95            | 7,098.02            | 26.53           | 24.19       | -166.95               | -1,778.10                         | -209.75    | 2,711.62             | 2,661.33              | 50.30                   | 53.913            |                                                                      |         |                            |  |
| 7,300.00                                    | 7,202.57            | 7,228.78            | 7,225.82            | 26.85           | 24.63       | -167.18               | -1,778.31                         | -207.35    | 2,727.52             | 2,676.42              | 51.10                   | 53.379            |                                                                      |         |                            |  |
| 7,400.00                                    | 7,301.06            | 7,307.87            | 7,304.85            | 27.23           | 24.90       | -167.36               | -1,778.32                         | -204.42    | 2,744.43             | 2,692.71              | 51.72                   | 53.065            |                                                                      |         |                            |  |
| 7,500.00                                    | 7,399.97            | 7,389.51            | 7,386.46            | 27.61           | 25.18       | -167.51               | -1,778.88                         | -202.22    | 2,759.48             | 2,707.13              | 52.35                   | 52.714            |                                                                      |         |                            |  |
| 7,600.00                                    | 7,499.23            | 7,488.36            | 7,485.29            | 27.98           | 25.52       | -167.64               | -1,779.87                         | -200.50    | 2,772.31             | 2,719.26              | 53.05                   | 52.255            |                                                                      |         |                            |  |
| 7,700.00                                    | 7,598.77            | 7,588.97            | 7,585.89            | 28.34           | 25.87       | -167.74               | -1,780.87                         | -199.41    | 2,782.59             | 2,728.83              | 53.77                   | 51.754            |                                                                      |         |                            |  |
| 7,800.00                                    | 7,698.53            | 7,688.65            | 7,685.56            | 28.70           | 26.22       | -167.80               | -1,781.83                         | -199.10    | 2,790.30             | 2,735.82              | 54.47                   | 51.224            |                                                                      |         |                            |  |
| 7,900.00                                    | 7,798.44            | 7,780.76            | 7,777.66            | 29.05           | 26.54       | -167.84               | -1,782.79                         | -198.90    | 2,795.53             | 2,740.39              | 55.14                   | 50.699            |                                                                      |         |                            |  |
| 8,000.00                                    | 7,898.42            | 7,853.31            | 7,850.21            | 29.39           | 26.80       | -167.86               | -1,784.05                         | -198.65    | 2,798.90             | 2,743.20              | 55.71                   | 50.243            |                                                                      |         |                            |  |
| 8,013.58                                    | 7,912.00            | 7,864.00            | 7,860.89            | 29.43           | 26.84       | 179.36                | -1,784.30                         | -198.61    | 2,799.24             | 2,743.45              | 55.79                   | 50.177            |                                                                      |         |                            |  |
| 8,100.00                                    | 7,998.42            | 7,990.80            | 7,987.67            | 29.73           | 27.28       | 179.32                | -1,785.92                         | -196.81    | 2,800.23             | 2,743.65              | 56.58                   | 49.495            |                                                                      |         |                            |  |
| 8,200.00                                    | 8,098.42            | 8,076.80            | 8,073.64            | 30.07           | 27.57       | 179.29                | -1,787.00                         | -195.38    | 2,801.48             | 2,744.28              | 57.20                   | 48.977            |                                                                      |         |                            |  |
| 8,300.00                                    | 8,198.42            | 8,193.24            | 8,190.04            | 30.41           | 27.98       | 179.23                | -1,788.21                         | -192.43    | 2,802.55             | 2,744.59              | 57.96                   | 48.349            |                                                                      |         |                            |  |
| 8,363.62                                    | 8,262.04            | 8,256.46            | 8,253.25            | 30.62           | 28.19       | 179.21                | -1,788.65                         | -191.29    | 2,803.01             | 2,744.61              | 58.40                   | 47.995            |                                                                      |         |                            |  |
| 8,400.00                                    | 8,298.40            | 8,282.10            | 8,278.89            | 30.75           | 28.28       | 89.53                 | -1,788.90                         | -191.01    | 2,803.37             | 2,744.77              | 58.60                   | 47.839            |                                                                      |         |                            |  |
| 8,450.00                                    | 8,348.10            | 8,317.16            | 8,313.94            | 30.91           | 28.41       | 89.53                 | -1,789.42                         | -190.79    | 2,804.06             | 2,745.20              | 58.87                   | 47.634            |                                                                      |         |                            |  |
| 8,500.00                                    | 8,397.14            | 8,357.28            | 8,354.06            | 31.07           | 28.55       | 89.60                 | -1,790.20                         | -190.75    | 2,804.98             | 2,745.82              | 59.16                   | 47.414            |                                                                      |         |                            |  |
| 8,550.00                                    | 8,445.15            | 8,403.86            | 8,400.63            | 31.23           | 28.71       | 89.76                 | -1,791.17                         | -190.84    | 2,805.98             | 2,746.49              | 59.48                   | 47.173            |                                                                      |         |                            |  |
| 8,600.00                                    | 8,491.77            | 8,448.47            | 8,445.22            | 31.38           | 28.87       | 89.99                 | -1,792.11                         | -191.05    | 2,807.08             | 2,747.28              | 59.80                   | 46.943            |                                                                      |         |                            |  |
| 8,650.00                                    | 8,536.65            | 8,490.40            | 8,487.15            | 31.52           | 29.02       | 90.24                 | -1,793.04                         | -191.37    | 2,808.36             | 2,748.26              | 60.10                   | 46.728            |                                                                      |         |                            |  |
| 8,700.00                                    | 8,579.43            | 8,530.20            | 8,526.93            | 31.66           | 29.16       | 90.51                 | -1,793.96                         | -191.81    | 2,809.92             | 2,749.52              | 60.40                   | 46.526            |                                                                      |         |                            |  |
| 8,750.00                                    | 8,619.80            | 8,565.24            | 8,561.95            | 31.80           | 29.29       | 90.74                 | -1,794.82                         | -192.18    | 2,811.86             | 2,751.19              | 60.67                   | 46.346            |                                                                      |         |                            |  |
| 8,800.00                                    | 8,657.44            | 8,598.16            | 8,594.86            | 31.93           | 29.41       | 90.95                 | -1,795.68                         | -192.43    | 2,814.27             | 2,753.32              | 60.94                   | 46.179            |                                                                      |         |                            |  |
| 8,850.00                                    | 8,692.08            | 8,623.00            | 8,619.69            | 32.06           | 29.50       | 91.01                 | -1,796.37                         | -192.55    | 2,817.24             | 2,756.05              | 61.18                   | 46.046            |                                                                      |         |                            |  |
| 8,900.00                                    | 8,723.44            | 8,650.59            | 8,647.27            | 32.19           | 29.59       | 91.09                 | -1,797.20                         | -192.67    | 2,820.86             | 2,759.41              | 61.45                   | 45.904            |                                                                      |         |                            |  |
| 8,950.00                                    | 8,751.29            | 8,670.88            | 8,667.55            | 32.34           | 29.67       | 90.99                 | -1,797.87                         | -192.78    | 2,825.22             | 2,763.52              | 61.70                   | 45.792            |                                                                      |         |                            |  |
| 9,000.00                                    | 8,775.42            | 8,688.38            | 8,685.04            | 32.50           | 29.73       | 90.79                 | -1,798.49                         | -192.89    | 2,830.36             | 2,768.42              | 61.95                   | 45.691            |                                                                      |         |                            |  |
| 9,050.00                                    | 8,795.64            | 8,702.95            | 8,699.60            | 32.67           | 29.78       | 90.46                 | -1,799.04                         | -192.99    | 2,836.31             | 2,774.11              | 62.20                   | 45.600            |                                                                      |         |                            |  |
| 9,100.00                                    | 8,811.80            | 8,717.00            | 8,713.64            | 32.87           | 29.83       | 90.05                 | -1,799.59                         | -193.10    | 2,843.08             | 2,780.60              | 62.47                   | 45.509            |                                                                      |         |                            |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |        | Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 336H - ST01 - ST01 |         | Offset Site Error: |  | 0.00 ft |
|---------------------------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|--------|----------------------------------------------------------------------|---------|--------------------|--|---------|
| Survey Program: 438-MWD+HDGM, 9290-MWD+HDGM |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |        | Offset Well Error:                                                   |         | 0.50 ft            |  |         |
| Reference                                   |                | Offset         |                | Semi Major Axis |        |                   | Distance               |                 |                  |                    |                   |        |                                                                      | Warning |                    |  |         |
| Measured Depth                              | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor |        |                                                                      |         |                    |  |         |
| (ft)                                        | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft)      | (ft)             | (ft)               | (ft)              |        |                                                                      |         |                    |  |         |
| 9,150.00                                    | 8,823.77       | 8,717.00       | 8,713.64       | 33.10           | 29.83  | 89.28             | -1,799.59              | -193.10         | 2,850.66         | 2,787.97           | 62.69             | 45.471 |                                                                      |         |                    |  |         |
| 9,200.00                                    | 8,831.47       | 8,727.94       | 8,724.57       | 33.34           | 29.87  | 88.65             | -1,800.03              | -193.19         | 2,859.02         | 2,796.03           | 62.99             | 45.389 |                                                                      |         |                    |  |         |
| 9,250.00                                    | 8,834.84       | 8,730.02       | 8,726.64       | 33.60           | 29.88  | 87.77             | -1,800.12              | -193.20         | 2,868.12         | 2,804.86           | 63.25             | 45.343 |                                                                      |         |                    |  |         |
| 9,263.62                                    | 8,835.00       | 9,936.91       | 9,297.24       | 33.67           | 36.85  | 98.99             | -1,813.15              | 474.66          | 2,868.81         | 2,798.49           | 70.32             | 40.797 |                                                                      |         |                    |  |         |
| 9,300.00                                    | 8,835.00       | 9,979.53       | 9,298.41       | 33.88           | 37.49  | 99.02             | -1,810.92              | 517.20          | 2,867.30         | 2,796.14           | 71.16             | 40.295 |                                                                      |         |                    |  |         |
| 9,400.00                                    | 8,835.00       | 10,069.15      | 9,301.43       | 34.53           | 38.90  | 99.09             | -1,806.06              | 606.64          | 2,863.08         | 2,789.85           | 73.23             | 39.097 |                                                                      |         |                    |  |         |
| 9,500.00                                    | 8,835.00       | 10,126.67      | 9,303.07       | 35.30           | 39.87  | 99.13             | -1,803.64              | 664.09          | 2,859.96         | 2,784.99           | 74.98             | 38.144 |                                                                      |         |                    |  |         |
| 9,600.00                                    | 8,835.00       | 10,201.78      | 9,304.59       | 36.17           | 41.21  | 99.17             | -1,801.58              | 739.15          | 2,858.13         | 2,780.95           | 77.18             | 37.034 |                                                                      |         |                    |  |         |
| 9,700.00                                    | 8,835.00       | 10,274.74      | 9,306.21       | 37.13           | 42.56  | 99.20             | -1,800.02              | 812.08          | 2,857.00         | 2,777.52           | 79.48             | 35.945 |                                                                      |         |                    |  |         |
| 9,742.29                                    | 8,835.00       | 10,301.10      | 9,307.27       | 37.57           | 43.07  | 99.22             | -1,799.62              | 838.41          | 2,856.88         | 2,776.46           | 80.42             | 35.524 |                                                                      |         |                    |  |         |
| 9,800.00                                    | 8,835.00       | 10,338.00      | 9,309.29       | 38.18           | 43.78  | 99.27             | -1,799.22              | 875.26          | 2,857.10         | 2,775.38           | 81.72             | 34.962 |                                                                      |         |                    |  |         |
| 9,900.00                                    | 8,835.00       | 10,430.80      | 9,315.72       | 39.31           | 45.64  | 99.39             | -1,798.44              | 967.83          | 2,857.99         | 2,773.32           | 84.67             | 33.755 |                                                                      |         |                    |  |         |
| 10,000.00                                   | 8,835.00       | 10,553.44      | 9,324.00       | 40.51           | 48.23  | 99.56             | -1,797.03              | 1,090.18        | 2,858.54         | 2,770.15           | 88.39             | 32.339 |                                                                      |         |                    |  |         |
| 10,100.00                                   | 8,835.00       | 10,646.72      | 9,328.01       | 41.78           | 50.27  | 99.64             | -1,795.92              | 1,183.37        | 2,858.69         | 2,767.04           | 91.65             | 31.192 |                                                                      |         |                    |  |         |
| 10,200.00                                   | 8,835.00       | 10,719.00      | 9,329.83       | 43.10           | 51.88  | 99.67             | -1,796.03              | 1,255.62        | 2,859.78         | 2,765.24           | 94.54             | 30.248 |                                                                      |         |                    |  |         |
| 10,300.00                                   | 8,835.00       | 10,791.67      | 9,331.28       | 44.49           | 53.55  | 99.70             | -1,796.91              | 1,328.27        | 2,861.84         | 2,764.30           | 97.54             | 29.340 |                                                                      |         |                    |  |         |
| 10,400.00                                   | 8,835.00       | 10,919.34      | 9,334.08       | 45.92           | 56.54  | 99.75             | -1,798.32              | 1,455.91        | 2,863.93         | 2,762.03           | 101.91            | 28.104 |                                                                      |         |                    |  |         |
| 10,500.00                                   | 8,835.00       | 11,000.15      | 9,335.85       | 47.39           | 58.47  | 99.78             | -1,799.04              | 1,536.69        | 2,865.75         | 2,760.49           | 105.26            | 27.226 |                                                                      |         |                    |  |         |
| 10,600.00                                   | 8,835.00       | 11,142.98      | 9,339.06       | 48.91           | 61.96  | 99.84             | -1,799.29              | 1,679.48        | 2,866.82         | 2,756.61           | 110.20            | 26.014 |                                                                      |         |                    |  |         |
| 10,700.00                                   | 8,835.00       | 11,249.31      | 9,341.79       | 50.47           | 64.59  | 99.89             | -1,798.72              | 1,785.78        | 2,867.32         | 2,752.99           | 114.33            | 25.080 |                                                                      |         |                    |  |         |
| 10,800.00                                   | 8,835.00       | 11,348.99      | 9,344.61       | 52.06           | 67.09  | 99.95             | -1,797.94              | 1,885.42        | 2,867.62         | 2,749.27           | 118.35            | 24.230 |                                                                      |         |                    |  |         |
| 10,900.00                                   | 8,835.00       | 11,441.53      | 9,347.13       | 53.68           | 69.44  | 100.00            | -1,797.41              | 1,977.91        | 2,868.12         | 2,745.87           | 122.25            | 23.462 |                                                                      |         |                    |  |         |
| 11,000.00                                   | 8,835.00       | 11,531.02      | 9,348.03       | 55.32           | 71.73  | 100.01            | -1,797.45              | 2,067.40        | 2,868.92         | 2,742.79           | 126.12            | 22.747 |                                                                      |         |                    |  |         |
| 11,100.00                                   | 8,835.00       | 11,618.96      | 9,348.84       | 57.00           | 74.01  | 100.02            | -1,797.86              | 2,155.34        | 2,870.13         | 2,740.13           | 130.00            | 22.078 |                                                                      |         |                    |  |         |
| 11,200.00                                   | 8,835.00       | 11,716.11      | 9,349.77       | 58.70           | 76.53  | 100.04            | -1,798.67              | 2,252.48        | 2,871.69         | 2,737.53           | 134.16            | 21.405 |                                                                      |         |                    |  |         |
| 11,300.00                                   | 8,835.00       | 11,828.50      | 9,350.92       | 60.41           | 79.48  | 100.06            | -1,799.30              | 2,364.86        | 2,873.02         | 2,734.25           | 138.76            | 20.704 |                                                                      |         |                    |  |         |
| 11,400.00                                   | 8,835.00       | 11,951.13      | 9,352.32       | 62.15           | 82.72  | 100.08            | -1,799.23              | 2,487.48        | 2,873.75         | 2,730.08           | 143.67            | 20.002 |                                                                      |         |                    |  |         |
| 11,500.00                                   | 8,835.00       | 12,055.52      | 9,354.13       | 63.91           | 85.49  | 100.12            | -1,798.51              | 2,591.85        | 2,873.96         | 2,725.84           | 148.12            | 19.402 |                                                                      |         |                    |  |         |
| 11,600.00                                   | 8,835.00       | 12,156.27      | 9,356.70       | 65.69           | 88.17  | 100.17            | -1,797.63              | 2,692.57        | 2,874.14         | 2,721.63           | 152.50            | 18.846 |                                                                      |         |                    |  |         |
| 11,700.00                                   | 8,835.00       | 12,305.09      | 9,361.26       | 67.47           | 92.16  | 100.26            | -1,795.12              | 2,841.29        | 2,873.71         | 2,715.55           | 158.16            | 18.170 |                                                                      |         |                    |  |         |
| 11,800.00                                   | 8,835.00       | 12,471.46      | 9,365.50       | 69.28           | 96.63  | 100.37            | -1,788.44              | 3,007.47        | 2,870.67         | 2,706.43           | 164.24            | 17.478 |                                                                      |         |                    |  |         |
| 11,900.00                                   | 8,835.00       | 12,557.35      | 9,367.39       | 71.09           | 98.95  | 100.42            | -1,784.15              | 3,093.23        | 2,866.78         | 2,698.47           | 168.31            | 17.032 |                                                                      |         |                    |  |         |
| 12,000.00                                   | 8,835.00       | 12,622.00      | 9,368.08       | 72.92           | 100.70 | 100.44            | -1,781.95              | 3,157.84        | 2,864.14         | 2,692.28           | 171.86            | 16.665 |                                                                      |         |                    |  |         |
| 12,100.00                                   | 8,835.00       | 12,729.53      | 9,368.29       | 74.76           | 103.62 | 100.45            | -1,779.00              | 3,265.32        | 2,862.08         | 2,685.53           | 176.54            | 16.212 |                                                                      |         |                    |  |         |
| 12,200.00                                   | 8,835.00       | 12,779.43      | 9,368.23       | 76.61           | 104.98 | 100.45            | -1,778.06              | 3,315.21        | 2,860.66         | 2,680.93           | 179.73            | 15.917 |                                                                      |         |                    |  |         |
| 12,251.75                                   | 8,835.00       | 12,812.00      | 9,368.17       | 77.58           | 105.87 | 100.45            | -1,777.80              | 3,347.79        | 2,860.52         | 2,678.97           | 181.55            | 15.756 |                                                                      |         |                    |  |         |
| 12,300.00                                   | 8,835.00       | 12,846.81      | 9,368.11       | 78.47           | 106.83 | 100.45            | -1,777.72              | 3,382.59        | 2,860.67         | 2,677.30           | 183.36            | 15.601 |                                                                      |         |                    |  |         |
| 12,400.00                                   | 8,835.00       | 12,926.91      | 9,368.19       | 80.34           | 109.02 | 100.45            | -1,777.87              | 3,462.69        | 2,861.46         | 2,674.11           | 187.35            | 15.273 |                                                                      |         |                    |  |         |
| 12,500.00                                   | 8,835.00       | 13,002.00      | 9,369.37       | 82.22           | 111.09 | 100.47            | -1,778.43              | 3,537.77        | 2,863.06         | 2,671.88           | 191.19            | 14.975 |                                                                      |         |                    |  |         |
| 12,600.00                                   | 8,835.00       | 13,112.56      | 9,372.08       | 84.11           | 114.13 | 100.52            | -1,779.44              | 3,648.29        | 2,865.00         | 2,668.97           | 196.04            | 14.615 |                                                                      |         |                    |  |         |
| 12,700.00                                   | 8,835.00       | 13,248.22      | 9,375.18       | 86.00           | 117.87 | 100.57            | -1,779.29              | 3,783.91        | 2,865.84         | 2,664.25           | 201.59            | 14.216 |                                                                      |         |                    |  |         |
| 12,800.00                                   | 8,835.00       | 13,333.73      | 9,376.97       | 87.90           | 120.23 | 100.61            | -1,778.87              | 3,869.41        | 2,866.36         | 2,660.60           | 205.76            | 13.931 |                                                                      |         |                    |  |         |
| 12,900.00                                   | 8,835.00       | 13,429.17      | 9,379.16       | 89.81           | 122.88 | 100.65            | -1,779.15              | 3,964.83        | 2,867.65         | 2,657.44           | 210.21            | 13.642 |                                                                      |         |                    |  |         |
| 13,000.00                                   | 8,835.00       | 13,527.29      | 9,382.14       | 91.72           | 125.60 | 100.71            | -1,778.86              | 4,062.89        | 2,868.51         | 2,653.77           | 214.74            | 13.358 |                                                                      |         |                    |  |         |
| 13,100.00                                   | 8,835.00       | 13,639.97      | 9,385.36       | 93.64           | 128.72 | 100.77            | -1,779.04              | 4,175.53        | 2,869.83         | 2,650.15           | 219.68            | 13.064 |                                                                      |         |                    |  |         |
| 13,200.00                                   | 8,835.00       | 13,776.23      | 9,388.95       | 95.56           | 132.51 | 100.84            | -1,777.38              | 4,311.73        | 2,869.64         | 2,644.37           | 225.27            | 12.738 |                                                                      |         |                    |  |         |
| 13,246.95                                   | 8,835.00       | 13,807.51      | 9,389.47       | 96.47           | 133.38 | 100.85            | -1,777.01              | 4,343.00        | 2,869.51         | 2,642.50           | 227.01            | 12.640 |                                                                      |         |                    |  |         |
| 13,300.00                                   | 8,835.00       | 13,842.86      | 9,389.81       | 97.49           | 134.37 | 100.86            | -1,776.84              | 4,378.35        | 2,869.68         | 2,640.70           | 228.97            | 12.533 |                                                                      |         |                    |  |         |
| 13,400.00                                   | 8,835.00       | 13,939.20      | 9,389.06       | 99.42           | 137.05 | 100.84            | -1,777.20              | 4,474.69        | 2,870.47         | 2,636.95           | 233.52            | 12.292 |                                                                      |         |                    |  |         |
| 13,500.00                                   | 8,835.00       | 14,011.79      | 9,387.72       | 101.36          | 139.08 | 100.81            | -1,777.85              | 4,547.26        | 2,871.62         | 2,634.21           | 237.41            | 12.096 |                                                                      |         |                    |  |         |
| 13,600.00                                   | 8,835.00       | 14,104.99      | 9,388.31       | 103.30          | 141.69 | 100.81            | -1,779.15              | 4,640.45        | 2,873.68         | 2,631.81           | 241.87            | 11.881 |                                                                      |         |                    |  |         |
| 13,700.00                                   | 8,835.00       | 14,212.10      | 9,390.64       | 105.25          | 144.68 | 100.85            | -1,779.96              | 4,747.53        | 2,875.40         | 2,628.69           | 246.72            | 11.655 |                                                                      |         |                    |  |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|---------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 438-MWD+HDGM, 9290-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 13,800.00                                   | 8,835.00            | 14,388.71           | 9,398.58            | 107.20          | 149.62      | 101.01                | -1,777.79                         | 4,923.93   | 2,875.54             | 2,622.10              | 253.43                  | 11.346            |                    |         |
| 13,900.00                                   | 8,835.00            | 14,503.76           | 9,404.73            | 109.15          | 152.83      | 101.14                | -1,774.48                         | 5,038.76   | 2,874.33             | 2,615.92              | 258.41                  | 11.123            |                    |         |
| 14,000.00                                   | 8,835.00            | 14,620.05           | 9,410.28            | 111.10          | 156.07      | 101.26                | -1,770.60                         | 5,154.85   | 2,872.56             | 2,609.14              | 263.42                  | 10.905            |                    |         |
| 14,100.00                                   | 8,835.00            | 14,719.50           | 9,414.44            | 113.06          | 158.85      | 101.36                | -1,767.11                         | 5,254.15   | 2,870.52             | 2,602.51              | 268.01                  | 10.711            |                    |         |
| 14,200.00                                   | 8,835.00            | 14,800.94           | 9,417.27            | 115.03          | 161.13      | 101.42                | -1,764.66                         | 5,335.51   | 2,868.84             | 2,596.69              | 272.15                  | 10.541            |                    |         |
| 14,300.00                                   | 8,835.00            | 14,878.10           | 9,418.16            | 116.99          | 163.30      | 101.44                | -1,763.24                         | 5,412.65   | 2,867.85             | 2,591.65              | 276.20                  | 10.383            |                    |         |
| 14,400.00                                   | 8,835.00            | 14,964.70           | 9,417.54            | 118.96          | 165.74      | 101.43                | -1,762.60                         | 5,499.24   | 2,867.56             | 2,587.03              | 280.53                  | 10.222            |                    |         |
| 14,500.00                                   | 8,835.00            | 15,076.18           | 9,418.66            | 120.93          | 168.87      | 101.45                | -1,761.48                         | 5,610.71   | 2,867.38             | 2,581.85              | 285.53                  | 10.042            |                    |         |
| 14,600.00                                   | 8,835.00            | 15,201.28           | 9,420.73            | 122.90          | 172.39      | 101.50                | -1,759.16                         | 5,735.77   | 2,866.48             | 2,575.60              | 290.87                  | 9.855             |                    |         |
| 14,700.00                                   | 8,835.00            | 15,336.05           | 9,425.34            | 124.88          | 176.18      | 101.61                | -1,754.38                         | 5,870.37   | 2,864.20             | 2,567.81              | 296.39                  | 9.664             |                    |         |
| 14,800.00                                   | 8,835.00            | 15,448.66           | 9,429.61            | 126.86          | 179.34      | 101.71                | -1,749.67                         | 5,982.80   | 2,861.45             | 2,560.13              | 301.32                  | 9.496             |                    |         |
| 14,900.00                                   | 8,835.00            | 15,520.82           | 9,432.04            | 128.84          | 181.36      | 101.76                | -1,746.68                         | 6,054.86   | 2,858.73             | 2,553.47              | 305.26                  | 9.365             |                    |         |
| 15,000.00                                   | 8,835.00            | 15,587.11           | 9,433.38            | 130.82          | 183.23      | 101.80                | -1,745.11                         | 6,121.12   | 2,857.35             | 2,548.32              | 309.03                  | 9.246             |                    |         |
| 15,100.00                                   | 8,835.00            | 15,698.47           | 9,435.02            | 132.80          | 186.37      | 101.83                | -1,743.05                         | 6,232.44   | 2,856.45             | 2,542.43              | 314.02                  | 9.096             |                    |         |
| 15,200.00                                   | 8,835.00            | 15,806.77           | 9,436.38            | 134.79          | 189.43      | 101.87                | -1,740.19                         | 6,340.69   | 2,854.68             | 2,535.76              | 318.92                  | 8.951             |                    |         |
| 15,300.00                                   | 8,835.00            | 15,899.52           | 9,436.02            | 136.78          | 192.04      | 101.87                | -1,738.52                         | 6,433.42   | 2,853.41             | 2,529.96              | 323.45                  | 8.822             |                    |         |
| 15,400.00                                   | 8,835.00            | 15,985.34           | 9,435.48            | 138.76          | 194.47      | 101.86                | -1,736.94                         | 6,519.24   | 2,852.10             | 2,524.31              | 327.79                  | 8.701             |                    |         |
| 15,461.01                                   | 8,835.00            | 16,022.97           | 9,435.52            | 139.98          | 195.53      | 101.86                | -1,736.55                         | 6,556.86   | 2,851.85             | 2,521.83              | 330.02                  | 8.641             |                    |         |
| 15,500.00                                   | 8,835.00            | 16,047.85           | 9,435.66            | 140.76          | 196.24      | 101.86                | -1,736.44                         | 6,581.74   | 2,851.95             | 2,520.50              | 331.45                  | 8.604             |                    |         |
| 15,600.00                                   | 8,835.00            | 16,163.40           | 9,436.44            | 142.75          | 199.51      | 101.88                | -1,735.90                         | 6,697.28   | 2,852.22             | 2,515.60              | 336.62                  | 8.473             |                    |         |
| 15,697.09                                   | 8,835.00            | 16,259.06           | 9,437.25            | 144.68          | 202.21      | 101.90                | -1,734.83                         | 6,792.94   | 2,851.90             | 2,510.74              | 341.15                  | 8.360             |                    |         |
| 15,700.00                                   | 8,835.00            | 16,260.72           | 9,437.27            | 144.74          | 202.26      | 101.90                | -1,734.81                         | 6,794.59   | 2,851.90             | 2,510.64              | 341.25                  | 8.357             |                    |         |
| 15,800.00                                   | 8,835.00            | 16,328.00           | 9,438.62            | 146.74          | 204.17      | 101.92                | -1,734.77                         | 6,861.86   | 2,852.73             | 2,507.72              | 345.01                  | 8.269             |                    |         |
| 15,900.00                                   | 8,835.00            | 16,390.45           | 9,440.58            | 148.73          | 205.94      | 101.96                | -1,735.37                         | 6,924.28   | 2,854.78             | 2,506.22              | 348.55                  | 8.190             |                    |         |
| 16,000.00                                   | 8,835.00            | 16,500.79           | 9,445.37            | 150.73          | 209.06      | 102.04                | -1,736.58                         | 7,034.50   | 2,857.36             | 2,503.84              | 353.52                  | 8.083             |                    |         |
| 16,100.00                                   | 8,835.00            | 16,596.41           | 9,450.46            | 152.73          | 211.77      | 102.14                | -1,737.00                         | 7,129.99   | 2,859.49             | 2,501.48              | 358.01                  | 7.987             |                    |         |
| 16,200.00                                   | 8,835.00            | 16,703.01           | 9,456.69            | 154.73          | 214.79      | 102.26                | -1,737.46                         | 7,236.40   | 2,861.74             | 2,498.92              | 362.82                  | 7.888             |                    |         |
| 16,300.00                                   | 8,835.00            | 16,811.19           | 9,463.43            | 156.73          | 217.85      | 102.39                | -1,737.49                         | 7,344.37   | 2,863.68             | 2,496.03              | 367.65                  | 7.789             |                    |         |
| 16,400.00                                   | 8,835.00            | 16,932.66           | 9,469.29            | 158.74          | 221.29      | 102.50                | -1,737.35                         | 7,465.70   | 2,865.21             | 2,492.30              | 372.90                  | 7.684             |                    |         |
| 16,500.00                                   | 8,835.00            | 17,048.26           | 9,472.96            | 160.74          | 224.57      | 102.57                | -1,736.57                         | 7,581.24   | 2,865.79             | 2,487.78              | 378.01                  | 7.581             |                    |         |
| 16,600.00                                   | 8,835.00            | 17,166.49           | 9,472.10            | 162.74          | 227.92      | 102.55                | -1,736.45                         | 7,699.46   | 2,866.14             | 2,482.84              | 383.30                  | 7.478             |                    |         |
| 16,626.13                                   | 8,835.00            | 17,201.28           | 9,471.06            | 163.27          | 228.91      | 102.53                | -1,736.37                         | 7,734.23   | 2,866.06             | 2,481.26              | 384.81                  | 7.448             |                    |         |
| 16,700.00                                   | 8,835.00            | 17,234.93           | 9,470.53            | 164.75          | 229.87      | 102.52                | -1,736.55                         | 7,767.88   | 2,866.43             | 2,479.26              | 387.17                  | 7.404             |                    |         |
| 16,800.00                                   | 8,835.00            | 17,304.98           | 9,470.32            | 166.76          | 231.86      | 102.51                | -1,737.38                         | 7,837.92   | 2,868.05             | 2,477.04              | 391.01                  | 7.335             |                    |         |
| 16,900.00                                   | 8,835.00            | 17,413.53           | 9,473.55            | 168.77          | 234.94      | 102.56                | -1,738.29                         | 7,946.41   | 2,870.11             | 2,474.15              | 395.95                  | 7.249             |                    |         |
| 17,000.00                                   | 8,835.00            | 17,518.06           | 9,477.32            | 170.77          | 237.91      | 102.63                | -1,738.31                         | 8,050.87   | 2,871.49             | 2,470.74              | 400.75                  | 7.165             |                    |         |
| 17,100.00                                   | 8,835.00            | 17,611.25           | 9,480.15            | 172.78          | 240.56      | 102.69                | -1,738.86                         | 8,144.02   | 2,873.30             | 2,468.08              | 405.22                  | 7.091             |                    |         |
| 17,200.00                                   | 8,835.00            | 17,754.83           | 9,482.86            | 174.79          | 244.64      | 102.73                | -1,739.19                         | 8,287.57   | 2,874.60             | 2,463.39              | 411.21                  | 6.991             |                    |         |
| 17,300.00                                   | 8,835.00            | 17,846.79           | 9,484.29            | 176.81          | 247.26      | 102.76                | -1,738.73                         | 8,379.52   | 2,875.04             | 2,459.35              | 415.68                  | 6.916             |                    |         |
| 17,400.00                                   | 8,835.00            | 17,849.00           | 9,484.32            | 178.82          | 247.32      | 102.76                | -1,738.72                         | 8,381.73   | 2,877.27             | 2,459.93              | 417.34                  | 6.894             |                    |         |
| 17,500.00                                   | 8,835.00            | 17,906.03           | 9,491.05            | 180.83          | 248.86      | 102.89                | -1,738.59                         | 8,438.26   | 2,881.01             | 2,460.70              | 420.31                  | 6.854             |                    |         |
| 17,600.00                                   | 8,835.00            | 18,174.22           | 9,518.83            | 182.84          | 256.29      | 103.42                | -1,738.66                         | 8,702.87   | 2,884.62             | 2,455.16              | 429.47                  | 6.717             |                    |         |
| 17,700.00                                   | 8,835.00            | 18,337.79           | 9,520.68            | 184.86          | 260.93      | 103.47                | -1,734.42                         | 8,866.38   | 2,882.73             | 2,446.93              | 435.80                  | 6.615             |                    |         |
| 17,800.00                                   | 8,835.00            | 18,450.41           | 9,521.89            | 186.87          | 264.12      | 103.51                | -1,730.31                         | 8,978.91   | 2,880.01             | 2,439.22              | 440.78                  | 6.534             |                    |         |
| 17,900.00                                   | 8,835.00            | 18,540.98           | 9,522.79            | 188.89          | 266.69      | 103.54                | -1,726.91                         | 9,069.42   | 2,877.19             | 2,431.95              | 445.24                  | 6.462             |                    |         |
| 18,000.00                                   | 8,835.00            | 18,619.36           | 9,525.09            | 190.91          | 268.92      | 103.60                | -1,724.18                         | 9,147.71   | 2,875.05             | 2,425.71              | 449.34                  | 6.398             |                    |         |
| 18,100.00                                   | 8,835.00            | 18,717.28           | 9,529.47            | 192.92          | 271.69      | 103.70                | -1,720.71                         | 9,245.47   | 2,873.24             | 2,419.38              | 453.86                  | 6.331             |                    |         |
| 18,200.00                                   | 8,835.00            | 18,803.59           | 9,533.98            | 194.94          | 274.14      | 103.79                | -1,717.83                         | 9,331.61   | 2,871.81             | 2,413.74              | 458.07                  | 6.269             |                    |         |
| 18,300.00                                   | 8,835.00            | 18,942.46           | 9,541.96            | 196.96          | 278.06      | 103.97                | -1,711.87                         | 9,470.13   | 2,869.47             | 2,406.00              | 463.48                  | 6.191             |                    |         |
| 18,400.00                                   | 8,835.00            | 19,050.69           | 9,549.04            | 198.98          | 281.12      | 104.13                | -1,706.55                         | 9,578.00   | 2,866.87             | 2,398.76              | 468.11                  | 6.124             |                    |         |
| 18,500.00                                   | 8,835.00            | 19,160.15           | 9,556.96            | 201.00          | 284.20      | 104.31                | -1,700.38                         | 9,686.99   | 2,863.74             | 2,391.02              | 472.73                  | 6.058             |                    |         |
| 18,600.00                                   | 8,835.00            | 19,172.00           | 9,557.83            | 203.02          | 284.54      | 104.33                | -1,699.70                         | 9,698.79   | 2,861.91             | 2,386.78              | 475.13                  | 6.023             |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 336H - ST01 - ST01 |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 0.00 ft |
|-------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|---------|
| Survey Program: 438-MWD+HDGM, 9290-MWD+HDGM                                               |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                 |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                           | Warning |
| Measured Depth<br>(ft)                                                                    | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |         |
| 18,603.10                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 203.08            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,861.91                   | 2,386.72                    | 475.19                        | 6.023                     |         |
| 18,700.00                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 205.04            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,863.55                   | 2,386.81                    | 476.74                        | 6.007                     |         |
| 18,800.00                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 207.06            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,868.68                   | 2,390.90                    | 477.78                        | 6.004 SF                  |         |
| 18,900.00                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 209.08            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,877.27                   | 2,399.02                    | 478.25                        | 6.016                     |         |
| 19,000.00                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 211.10            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,889.30                   | 2,411.14                    | 478.17                        | 6.042                     |         |
| 19,100.00                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 213.12            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,904.73                   | 2,427.19                    | 477.54                        | 6.083                     |         |
| 19,200.00                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 215.15            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,923.50                   | 2,447.11                    | 476.39                        | 6.137                     |         |
| 19,308.27                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 217.34            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,947.51                   | 2,472.93                    | 474.58                        | 6.211                     |         |



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 438-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                         | 0.00                | 13.82               | 13.82               | 0.50            | 0.50        | -176.46               | -1,723.38                         | -106.64    | 1,726.67             |                       |                         |                   |                    |         |
| 100.00                       | 100.00              | 110.43              | 110.42              | 0.52            | 0.53        | -176.46               | -1,723.51                         | -106.51    | 1,726.80             | 1,725.75              | 1.05                    | 1,642.168         |                    |         |
| 200.00                       | 200.00              | 207.03              | 207.03              | 0.70            | 0.61        | -176.47               | -1,723.84                         | -106.20    | 1,727.12             | 1,725.81              | 1.31                    | 1,315.798         |                    |         |
| 300.00                       | 300.00              | 303.64              | 303.63              | 0.99            | 0.72        | -176.49               | -1,724.37                         | -105.69    | 1,727.64             | 1,725.94              | 1.70                    | 1,013.764         |                    |         |
| 400.00                       | 400.00              | 400.24              | 400.23              | 1.31            | 0.84        | -176.52               | -1,725.11                         | -104.99    | 1,728.36             | 1,726.20              | 2.15                    | 803.606           |                    |         |
| 500.00                       | 500.00              | 496.20              | 496.18              | 1.65            | 1.07        | -176.55               | -1,726.05                         | -104.13    | 1,729.28             | 1,726.56              | 2.72                    | 635.911           |                    |         |
| 600.00                       | 600.00              | 595.87              | 595.84              | 1.99            | 1.40        | -176.58               | -1,727.19                         | -103.24    | 1,730.38             | 1,726.99              | 3.39                    | 510.419           |                    |         |
| 700.00                       | 700.00              | 693.41              | 693.37              | 2.34            | 1.73        | -176.60               | -1,728.32                         | -102.62    | 1,731.49             | 1,727.42              | 4.07                    | 425.483           |                    |         |
| 800.00                       | 800.00              | 792.24              | 792.19              | 2.69            | 2.07        | -176.62               | -1,729.58                         | -102.17    | 1,732.74             | 1,727.98              | 4.76                    | 363.894           |                    |         |
| 900.00                       | 900.00              | 894.25              | 894.19              | 3.04            | 2.43        | -176.64               | -1,730.88                         | -101.51    | 1,733.97             | 1,728.49              | 5.47                    | 316.939           |                    |         |
| 1,000.00                     | 1,000.00            | 989.96              | 989.88              | 3.40            | 2.77        | -176.68               | -1,732.21                         | -100.60    | 1,735.30             | 1,729.14              | 6.16                    | 281.618           |                    |         |
| 1,100.00                     | 1,100.00            | 1,112.58            | 1,112.50            | 3.75            | 3.19        | -176.73               | -1,733.31                         | -99.14     | 1,736.14             | 1,729.20              | 6.94                    | 250.077           |                    |         |
| 1,200.00                     | 1,200.00            | 1,232.14            | 1,232.04            | 4.11            | 3.59        | -176.70               | -1,732.57                         | -99.90     | 1,735.54             | 1,727.85              | 7.69                    | 225.604           |                    |         |
| 1,300.00                     | 1,300.00            | 1,343.65            | 1,343.52            | 4.46            | 3.95        | -176.62               | -1,730.92                         | -102.28    | 1,734.19             | 1,725.77              | 8.41                    | 206.129           |                    |         |
| 1,400.00                     | 1,400.00            | 1,443.47            | 1,443.28            | 4.82            | 4.29        | -176.52               | -1,729.04                         | -105.09    | 1,732.47             | 1,723.37              | 9.10                    | 190.312           |                    |         |
| 1,500.00                     | 1,500.00            | 1,532.13            | 1,531.89            | 5.18            | 4.59        | -176.44               | -1,727.71                         | -107.50    | 1,731.15             | 1,721.38              | 9.76                    | 177.358           |                    |         |
| 1,600.00                     | 1,600.00            | 1,630.29            | 1,630.02            | 5.53            | 4.92        | -176.35               | -1,726.61                         | -110.19    | 1,730.20             | 1,719.74              | 10.45                   | 165.516           |                    |         |
| 1,700.00                     | 1,700.00            | 1,732.81            | 1,732.49            | 5.89            | 5.27        | -176.25               | -1,725.44                         | -112.99    | 1,729.24             | 1,718.07              | 11.16                   | 154.903           |                    |         |
| 1,800.00                     | 1,800.00            | 1,837.77            | 1,837.40            | 6.25            | 5.64        | -176.15               | -1,723.98                         | -115.93    | 1,728.02             | 1,716.14              | 11.88                   | 145.412           |                    |         |
| 1,900.00                     | 1,900.00            | 1,936.31            | 1,935.89            | 6.61            | 5.98        | -176.06               | -1,722.45                         | -118.48    | 1,726.65             | 1,714.07              | 12.58                   | 137.213           |                    |         |
| 2,000.00                     | 2,000.00            | 2,029.15            | 2,028.70            | 6.96            | 6.30        | -175.99               | -1,721.35                         | -120.74    | 1,725.64             | 1,712.38              | 13.27                   | 130.081           |                    |         |
| 2,044.39                     | 2,044.39            | 2,071.95            | 2,071.49            | 7.12            | 6.45        | -163.17               | -1,720.94                         | -121.80    | 1,725.46             | 1,711.88              | 13.57                   | 127.110 CC        |                    |         |
| 2,100.00                     | 2,099.99            | 2,126.07            | 2,125.58            | 7.32            | 6.64        | -163.13               | -1,720.47                         | -123.20    | 1,725.74             | 1,711.78              | 13.96                   | 123.592 ES        |                    |         |
| 2,200.00                     | 2,199.96            | 2,225.52            | 2,224.99            | 7.68            | 6.99        | -163.06               | -1,719.66                         | -125.99    | 1,727.64             | 1,712.97              | 14.67                   | 117.761           |                    |         |
| 2,300.00                     | 2,299.86            | 2,327.71            | 2,327.14            | 8.04            | 7.35        | -162.99               | -1,718.74                         | -128.89    | 1,731.13             | 1,715.74              | 15.39                   | 112.495           |                    |         |
| 2,400.00                     | 2,399.68            | 2,431.14            | 2,430.53            | 8.39            | 7.72        | -162.94               | -1,717.66                         | -131.82    | 1,736.13             | 1,720.02              | 16.11                   | 107.760           |                    |         |
| 2,500.00                     | 2,499.37            | 2,533.13            | 2,532.46            | 8.75            | 8.08        | -162.89               | -1,716.36                         | -134.91    | 1,742.59             | 1,725.76              | 16.83                   | 103.543           |                    |         |
| 2,600.00                     | 2,598.90            | 2,629.83            | 2,629.10            | 9.11            | 8.42        | -162.86               | -1,715.14                         | -137.85    | 1,750.73             | 1,733.20              | 17.53                   | 99.869            |                    |         |
| 2,700.00                     | 2,698.26            | 2,725.07            | 2,724.30            | 9.46            | 8.76        | -162.84               | -1,714.19                         | -140.72    | 1,760.78             | 1,742.56              | 18.23                   | 96.609            |                    |         |
| 2,800.00                     | 2,797.40            | 2,829.98            | 2,829.15            | 9.82            | 9.13        | -162.84               | -1,713.11                         | -143.67    | 1,772.44             | 1,753.49              | 18.96                   | 93.502            |                    |         |
| 2,900.00                     | 2,896.30            | 2,928.23            | 2,927.35            | 10.18           | 9.48        | -162.84               | -1,711.94                         | -146.60    | 1,785.63             | 1,765.96              | 19.66                   | 90.809            |                    |         |
| 3,000.00                     | 2,994.93            | 2,999.57            | 2,998.66            | 10.54           | 9.74        | -162.84               | -1,711.72                         | -148.55    | 1,801.28             | 1,781.01              | 20.27                   | 88.854            |                    |         |
| 3,100.00                     | 3,093.26            | 3,083.97            | 3,083.05            | 10.90           | 10.04       | -162.88               | -1,712.49                         | -150.29    | 1,819.75             | 1,798.83              | 20.93                   | 86.962            |                    |         |
| 3,195.07                     | 3,186.42            | 3,173.91            | 3,172.96            | 11.24           | 10.36       | -162.93               | -1,713.70                         | -152.18    | 1,839.25             | 1,817.66              | 21.58                   | 85.216            |                    |         |
| 3,200.00                     | 3,191.25            | 3,178.73            | 3,177.78            | 11.26           | 10.37       | -162.94               | -1,713.77                         | -152.28    | 1,840.30             | 1,818.68              | 21.62                   | 85.126            |                    |         |
| 3,300.00                     | 3,289.08            | 3,264.08            | 3,263.10            | 11.62           | 10.67       | -163.06               | -1,715.16                         | -153.63    | 1,861.85             | 1,839.58              | 22.27                   | 83.604            |                    |         |
| 3,400.00                     | 3,386.91            | 3,346.36            | 3,345.36            | 11.98           | 10.96       | -163.23               | -1,717.31                         | -153.35    | 1,884.24             | 1,861.33              | 22.90                   | 82.264            |                    |         |
| 3,500.00                     | 3,484.74            | 3,475.17            | 3,474.10            | 12.35           | 11.40       | -163.53               | -1,720.83                         | -151.44    | 1,906.85             | 1,883.13              | 23.72                   | 80.395            |                    |         |
| 3,600.00                     | 3,582.58            | 3,594.64            | 3,593.55            | 12.72           | 11.80       | -163.79               | -1,721.68                         | -149.87    | 1,927.36             | 1,902.87              | 24.49                   | 78.687            |                    |         |
| 3,700.00                     | 3,680.41            | 3,685.05            | 3,683.95            | 13.09           | 12.11       | -163.99               | -1,722.15                         | -148.58    | 1,947.72             | 1,922.56              | 25.16                   | 77.406            |                    |         |
| 3,800.00                     | 3,778.24            | 3,780.71            | 3,779.61            | 13.46           | 12.44       | -164.19               | -1,722.80                         | -147.15    | 1,968.26             | 1,942.41              | 25.85                   | 76.133            |                    |         |
| 3,900.00                     | 3,876.08            | 3,876.81            | 3,875.69            | 13.83           | 12.77       | -164.39               | -1,723.54                         | -145.84    | 1,988.92             | 1,962.37              | 26.55                   | 74.924            |                    |         |
| 4,000.00                     | 3,973.91            | 3,975.50            | 3,974.37            | 14.21           | 13.11       | -164.58               | -1,724.28                         | -144.81    | 2,009.59             | 1,982.34              | 27.25                   | 73.742            |                    |         |
| 4,100.00                     | 4,071.74            | 4,073.90            | 4,072.76            | 14.58           | 13.45       | -164.77               | -1,725.02                         | -143.85    | 2,030.29             | 2,002.33              | 27.96                   | 72.619            |                    |         |
| 4,200.00                     | 4,169.57            | 4,175.37            | 4,174.23            | 14.96           | 13.80       | -164.95               | -1,725.52                         | -143.05    | 2,050.77             | 2,022.09              | 28.68                   | 71.510            |                    |         |
| 4,300.00                     | 4,267.41            | 4,265.69            | 4,264.55            | 15.33           | 14.11       | -165.11               | -1,726.16                         | -142.44    | 2,071.47             | 2,042.11              | 29.36                   | 70.566            |                    |         |
| 4,400.00                     | 4,365.24            | 4,363.96            | 4,362.82            | 15.71           | 14.46       | -165.26               | -1,727.01                         | -142.03    | 2,092.35             | 2,062.28              | 30.07                   | 69.591            |                    |         |
| 4,500.00                     | 4,463.07            | 4,465.86            | 4,464.70            | 16.09           | 14.82       | -165.42               | -1,727.68                         | -141.80    | 2,113.05             | 2,082.25              | 30.79                   | 68.618            |                    |         |
| 4,600.00                     | 4,560.90            | 4,563.06            | 4,561.91            | 16.47           | 15.16       | -165.57               | -1,728.30                         | -141.53    | 2,133.74             | 2,102.23              | 31.50                   | 67.729            |                    |         |
| 4,700.00                     | 4,658.74            | 4,660.46            | 4,659.31            | 16.85           | 15.50       | -165.70               | -1,728.89                         | -141.51    | 2,154.42             | 2,122.20              | 32.22                   | 66.874            |                    |         |
| 4,800.00                     | 4,756.57            | 4,756.75            | 4,755.59            | 17.23           | 15.84       | -165.84               | -1,729.56                         | -141.50    | 2,175.19             | 2,142.27              | 32.92                   | 66.066            |                    |         |
| 4,900.00                     | 4,854.40            | 4,856.71            | 4,855.55            | 17.61           | 16.19       | -165.97               | -1,730.23                         | -141.65    | 2,195.96             | 2,162.31              | 33.65                   | 65.260            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 438-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,000.00                     | 4,952.23            | 4,946.34            | 4,945.17            | 17.99           | 16.51       | -166.08               | -1,730.78                         | -141.82    | 2,216.70             | 2,182.37              | 34.33                   | 64.569            |                    |         |
| 5,100.00                     | 5,050.07            | 5,027.50            | 5,026.32            | 18.37           | 16.79       | -166.16               | -1,731.94                         | -142.93    | 2,238.22             | 2,203.25              | 34.98                   | 63.995            |                    |         |
| 5,200.00                     | 5,147.90            | 5,126.70            | 5,125.49            | 18.75           | 17.14       | -166.24               | -1,733.54                         | -144.93    | 2,259.96             | 2,224.27              | 35.70                   | 63.306            |                    |         |
| 5,300.00                     | 5,245.73            | 5,222.43            | 5,221.18            | 19.14           | 17.48       | -166.31               | -1,735.11                         | -147.02    | 2,281.74             | 2,245.33              | 36.41                   | 62.672            |                    |         |
| 5,400.00                     | 5,343.56            | 5,317.54            | 5,316.25            | 19.52           | 17.82       | -166.37               | -1,736.75                         | -149.13    | 2,303.59             | 2,266.47              | 37.11                   | 62.067            |                    |         |
| 5,500.00                     | 5,441.40            | 5,412.21            | 5,410.88            | 19.90           | 18.16       | -166.43               | -1,738.52                         | -151.50    | 2,325.59             | 2,287.77              | 37.82                   | 61.492            |                    |         |
| 5,600.00                     | 5,539.23            | 5,508.86            | 5,507.44            | 20.29           | 18.50       | -166.45               | -1,740.33                         | -155.34    | 2,347.61             | 2,309.07              | 38.53                   | 60.922            |                    |         |
| 5,700.00                     | 5,637.06            | 5,598.02            | 5,596.46            | 20.67           | 18.82       | -166.45               | -1,742.18                         | -159.86    | 2,369.83             | 2,330.62              | 39.22                   | 60.432            |                    |         |
| 5,800.00                     | 5,734.90            | 5,684.85            | 5,683.16            | 21.05           | 19.13       | -166.45               | -1,744.39                         | -164.02    | 2,392.51             | 2,352.62              | 39.89                   | 59.985            |                    |         |
| 5,900.00                     | 5,832.73            | 5,784.75            | 5,782.92            | 21.44           | 19.48       | -166.46               | -1,747.05                         | -168.53    | 2,415.30             | 2,374.68              | 40.62                   | 59.465            |                    |         |
| 6,000.00                     | 5,930.56            | 5,882.76            | 5,880.81            | 21.83           | 19.83       | -166.47               | -1,749.61                         | -172.76    | 2,438.04             | 2,396.70              | 41.34                   | 58.974            |                    |         |
| 6,100.00                     | 6,028.39            | 5,981.82            | 5,979.76            | 22.21           | 20.19       | -166.49               | -1,752.16                         | -176.69    | 2,460.75             | 2,418.68              | 42.07                   | 58.492            |                    |         |
| 6,200.00                     | 6,126.23            | 6,089.81            | 6,087.64            | 22.60           | 20.57       | -166.52               | -1,754.75                         | -180.58    | 2,483.28             | 2,440.44              | 42.84                   | 57.964            |                    |         |
| 6,300.00                     | 6,224.06            | 6,196.24            | 6,193.99            | 22.98           | 20.95       | -166.55               | -1,756.65                         | -184.51    | 2,505.20             | 2,461.60              | 43.61                   | 57.451            |                    |         |
| 6,400.00                     | 6,321.89            | 6,286.22            | 6,283.90            | 23.37           | 21.27       | -166.58               | -1,758.34                         | -187.63    | 2,527.23             | 2,482.93              | 44.29                   | 57.057            |                    |         |
| 6,500.00                     | 6,419.72            | 6,370.98            | 6,368.59            | 23.76           | 21.58       | -166.61               | -1,760.26                         | -190.48    | 2,549.62             | 2,504.67              | 44.96                   | 56.715            |                    |         |
| 6,600.00                     | 6,517.56            | 6,454.17            | 6,451.70            | 24.14           | 21.87       | -166.64               | -1,762.66                         | -193.07    | 2,572.62             | 2,527.01              | 45.61                   | 56.406            |                    |         |
| 6,700.00                     | 6,615.39            | 6,549.24            | 6,546.68            | 24.53           | 22.22       | -166.68               | -1,765.64                         | -195.92    | 2,595.87             | 2,549.54              | 46.32                   | 56.041            |                    |         |
| 6,800.00                     | 6,713.22            | 6,643.03            | 6,640.36            | 24.92           | 22.55       | -166.71               | -1,768.71                         | -199.25    | 2,619.25             | 2,572.22              | 47.03                   | 55.697            |                    |         |
| 6,900.00                     | 6,811.05            | 6,753.43            | 6,750.61            | 25.30           | 22.95       | -166.72               | -1,772.24                         | -203.89    | 2,642.58             | 2,594.77              | 47.82                   | 55.266            |                    |         |
| 7,000.00                     | 6,908.89            | 6,878.42            | 6,875.53            | 25.69           | 23.40       | -166.78               | -1,774.93                         | -206.91    | 2,664.83             | 2,616.16              | 48.67                   | 54.750            |                    |         |
| 7,100.00                     | 7,006.72            | 6,986.12            | 6,983.20            | 26.08           | 23.78       | -166.86               | -1,776.65                         | -208.60    | 2,686.58             | 2,637.14              | 49.45                   | 54.334            |                    |         |
| 7,200.00                     | 7,104.55            | 7,087.18            | 7,084.25            | 26.47           | 24.14       | -166.94               | -1,777.92                         | -209.69    | 2,708.00             | 2,657.81              | 50.19                   | 53.958            |                    |         |
| 7,216.87                     | 7,121.05            | 7,100.95            | 7,098.02            | 26.53           | 24.19       | -166.95               | -1,778.10                         | -209.75    | 2,711.62             | 2,661.33              | 50.30                   | 53.913            |                    |         |
| 7,300.00                     | 7,202.57            | 7,228.78            | 7,225.82            | 26.85           | 24.63       | -167.18               | -1,778.31                         | -207.35    | 2,727.52             | 2,676.42              | 51.10                   | 53.379            |                    |         |
| 7,400.00                     | 7,301.06            | 7,307.87            | 7,304.85            | 27.23           | 24.90       | -167.36               | -1,778.32                         | -204.42    | 2,744.43             | 2,692.71              | 51.72                   | 53.065            |                    |         |
| 7,500.00                     | 7,399.97            | 7,389.51            | 7,386.46            | 27.61           | 25.18       | -167.51               | -1,778.88                         | -202.22    | 2,759.48             | 2,707.13              | 52.35                   | 52.714            |                    |         |
| 7,600.00                     | 7,499.23            | 7,488.36            | 7,485.29            | 27.98           | 25.52       | -167.64               | -1,779.87                         | -200.50    | 2,772.31             | 2,719.26              | 53.05                   | 52.255            |                    |         |
| 7,700.00                     | 7,598.77            | 7,588.97            | 7,585.89            | 28.34           | 25.87       | -167.74               | -1,780.87                         | -199.41    | 2,782.59             | 2,728.83              | 53.77                   | 51.754            |                    |         |
| 7,800.00                     | 7,698.53            | 7,688.65            | 7,685.56            | 28.70           | 26.22       | -167.80               | -1,781.83                         | -199.10    | 2,790.30             | 2,735.82              | 54.47                   | 51.224            |                    |         |
| 7,900.00                     | 7,798.44            | 7,780.76            | 7,777.66            | 29.05           | 26.54       | -167.84               | -1,782.79                         | -198.90    | 2,795.53             | 2,740.39              | 55.14                   | 50.699            |                    |         |
| 8,000.00                     | 7,898.42            | 7,853.31            | 7,850.21            | 29.39           | 26.80       | -167.86               | -1,784.05                         | -198.65    | 2,798.90             | 2,743.20              | 55.71                   | 50.243            |                    |         |
| 8,013.58                     | 7,912.00            | 7,864.00            | 7,860.89            | 29.43           | 26.84       | -179.36               | -1,784.30                         | -198.61    | 2,799.24             | 2,743.45              | 55.79                   | 50.177            |                    |         |
| 8,100.00                     | 7,998.42            | 7,990.80            | 7,987.67            | 29.73           | 27.28       | -179.32               | -1,785.92                         | -196.81    | 2,800.23             | 2,743.65              | 56.58                   | 49.495            |                    |         |
| 8,200.00                     | 8,098.42            | 8,076.80            | 8,073.64            | 30.07           | 27.57       | -179.29               | -1,787.00                         | -195.38    | 2,801.48             | 2,744.29              | 57.20                   | 48.977            |                    |         |
| 8,300.00                     | 8,198.42            | 8,193.24            | 8,190.04            | 30.41           | 27.98       | -179.23               | -1,788.21                         | -192.43    | 2,802.55             | 2,744.59              | 57.96                   | 48.349            |                    |         |
| 8,363.62                     | 8,262.04            | 8,256.46            | 8,253.25            | 30.62           | 28.19       | -179.21               | -1,788.65                         | -191.29    | 2,803.01             | 2,744.61              | 58.40                   | 47.996            |                    |         |
| 8,400.00                     | 8,298.40            | 8,282.10            | 8,278.89            | 30.75           | 28.28       | -89.53                | -1,788.90                         | -191.01    | 2,803.37             | 2,744.77              | 58.60                   | 47.839            |                    |         |
| 8,450.00                     | 8,348.10            | 8,317.16            | 8,313.94            | 30.91           | 28.41       | -89.53                | -1,789.42                         | -190.79    | 2,804.06             | 2,745.20              | 58.87                   | 47.634            |                    |         |
| 8,500.00                     | 8,397.14            | 8,357.28            | 8,354.06            | 31.07           | 28.55       | -89.60                | -1,790.20                         | -190.75    | 2,804.98             | 2,745.82              | 59.16                   | 47.414            |                    |         |
| 8,550.00                     | 8,445.15            | 8,403.86            | 8,400.63            | 31.23           | 28.71       | -89.76                | -1,791.17                         | -190.84    | 2,805.98             | 2,746.49              | 59.48                   | 47.173            |                    |         |
| 8,600.00                     | 8,491.77            | 8,448.47            | 8,445.22            | 31.38           | 28.87       | -89.99                | -1,792.11                         | -191.05    | 2,807.08             | 2,747.28              | 59.80                   | 46.943            |                    |         |
| 8,650.00                     | 8,536.65            | 8,490.40            | 8,487.15            | 31.52           | 29.02       | -90.24                | -1,793.04                         | -191.37    | 2,808.36             | 2,748.26              | 60.10                   | 46.728            |                    |         |
| 8,700.00                     | 8,579.43            | 8,530.20            | 8,526.93            | 31.66           | 29.16       | -90.51                | -1,793.96                         | -191.81    | 2,809.92             | 2,749.52              | 60.40                   | 46.526            |                    |         |
| 8,750.00                     | 8,619.80            | 8,565.24            | 8,561.95            | 31.80           | 29.29       | -90.74                | -1,794.82                         | -192.18    | 2,811.86             | 2,751.19              | 60.67                   | 46.346            |                    |         |
| 8,800.00                     | 8,657.44            | 8,598.16            | 8,594.86            | 31.93           | 29.41       | -90.95                | -1,795.68                         | -192.43    | 2,814.27             | 2,753.32              | 60.94                   | 46.179            |                    |         |
| 8,850.00                     | 8,692.08            | 8,623.00            | 8,619.69            | 32.06           | 29.50       | -91.01                | -1,796.37                         | -192.55    | 2,817.24             | 2,756.05              | 61.18                   | 46.046            |                    |         |
| 8,900.00                     | 8,723.44            | 8,650.59            | 8,647.27            | 32.19           | 29.59       | -91.09                | -1,797.20                         | -192.67    | 2,820.86             | 2,759.41              | 61.45                   | 45.904            |                    |         |
| 8,950.00                     | 8,751.29            | 8,670.88            | 8,667.55            | 32.34           | 29.67       | -91.99                | -1,797.87                         | -192.78    | 2,825.22             | 2,763.52              | 61.70                   | 45.792            |                    |         |
| 9,000.00                     | 8,775.42            | 8,688.38            | 8,685.04            | 32.50           | 29.73       | -90.79                | -1,798.49                         | -192.89    | 2,830.36             | 2,768.42              | 61.95                   | 45.691            |                    |         |
| 9,050.00                     | 8,795.64            | 8,702.95            | 8,699.60            | 32.67           | 29.78       | -90.46                | -1,799.04                         | -192.99    | 2,836.31             | 2,774.11              | 62.20                   | 45.600            |                    |         |
| 9,100.00                     | 8,811.80            | 8,717.00            | 8,713.64            | 32.87           | 29.83       | -90.05                | -1,799.59                         | -193.10    | 2,843.08             | 2,780.60              | 62.47                   | 45.509            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 438-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,150.00                     | 8,823.77            | 8,717.00            | 8,713.64            | 33.10           | 29.83       | 89.28                 | -1,799.59                         | -193.10    | 2,850.66             | 2,787.97              | 62.69                   | 45.471            |                    |         |
| 9,200.00                     | 8,831.47            | 8,727.94            | 8,724.57            | 33.34           | 29.87       | 88.65                 | -1,800.03                         | -193.19    | 2,859.02             | 2,796.03              | 62.99                   | 45.389            |                    |         |
| 9,250.00                     | 8,834.84            | 8,730.02            | 8,726.64            | 33.60           | 29.88       | 87.77                 | -1,800.12                         | -193.20    | 2,868.12             | 2,804.86              | 63.25                   | 45.343            |                    |         |
| 9,263.62                     | 8,835.00            | 8,730.05            | 8,726.67            | 33.67           | 29.88       | 87.51                 | -1,800.12                         | -193.20    | 2,870.72             | 2,807.39              | 63.33                   | 45.332            |                    |         |
| 9,300.00                     | 8,835.00            | 8,729.82            | 8,726.45            | 33.88           | 29.88       | 87.50                 | -1,800.11                         | -193.20    | 2,877.94             | 2,814.42              | 63.52                   | 45.306            |                    |         |
| 9,400.00                     | 8,835.00            | 8,729.22            | 8,725.84            | 34.53           | 29.88       | 87.49                 | -1,800.09                         | -193.20    | 2,900.07             | 2,835.95              | 64.12                   | 45.225            |                    |         |
| 9,500.00                     | 8,835.00            | 8,728.61            | 8,725.24            | 35.30           | 29.87       | 87.48                 | -1,800.06                         | -193.19    | 2,925.45             | 2,860.65              | 64.80                   | 45.146            |                    |         |
| 9,600.00                     | 8,835.00            | 8,728.01            | 8,724.64            | 36.17           | 29.87       | 87.46                 | -1,800.04                         | -193.19    | 2,954.00             | 2,888.47              | 65.54                   | 45.074            |                    |         |
| 9,700.00                     | 8,835.00            | 8,727.42            | 8,724.05            | 37.13           | 29.87       | 87.45                 | -1,800.01                         | -193.18    | 2,985.63             | 2,919.31              | 66.32                   | 45.018            |                    |         |
| 9,800.00                     | 8,835.00            | 8,726.83            | 8,723.45            | 38.18           | 29.87       | 87.44                 | -1,799.99                         | -193.18    | 3,020.24             | 2,953.10              | 67.14                   | 44.983            |                    |         |
| 9,900.00                     | 8,835.00            | 8,726.24            | 8,722.87            | 39.31           | 29.87       | 87.43                 | -1,799.96                         | -193.17    | 3,057.73             | 2,989.74              | 67.99                   | 44.975 SF         |                    |         |
| 10,000.00                    | 8,835.00            | 8,725.65            | 8,722.28            | 40.51           | 29.86       | 87.42                 | -1,799.94                         | -193.17    | 3,097.99             | 3,029.15              | 68.85                   | 44.997            |                    |         |
| 10,100.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 41.78           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,140.94             | 3,071.27              | 69.68                   | 45.079            |                    |         |
| 10,200.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 43.10           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,186.43             | 3,115.89              | 70.55                   | 45.166            |                    |         |
| 10,300.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 44.49           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,234.38             | 3,162.96              | 71.42                   | 45.290            |                    |         |
| 10,400.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 45.92           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,284.67             | 3,212.40              | 72.27                   | 45.449            |                    |         |
| 10,500.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 47.39           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,337.20             | 3,264.09              | 73.11                   | 45.646            |                    |         |
| 10,600.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 48.91           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,391.86             | 3,317.93              | 73.93                   | 45.879            |                    |         |
| 10,700.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 50.47           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,448.56             | 3,373.83              | 74.73                   | 46.147            |                    |         |
| 10,800.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 52.06           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,507.19             | 3,431.69              | 75.51                   | 46.449            |                    |         |
| 10,900.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 53.68           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,567.67             | 3,491.41              | 76.26                   | 46.785            |                    |         |
| 11,000.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 55.32           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,629.89             | 3,552.91              | 76.98                   | 47.153            |                    |         |
| 11,100.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 57.00           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,693.77             | 3,616.09              | 77.68                   | 47.551            |                    |         |
| 11,200.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 58.70           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,759.22             | 3,680.87              | 78.35                   | 47.978            |                    |         |
| 11,300.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 60.41           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,826.17             | 3,747.18              | 79.00                   | 48.433            |                    |         |
| 11,400.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 62.15           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,894.54             | 3,814.92              | 79.62                   | 48.915            |                    |         |
| 11,500.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 63.91           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,964.25             | 3,884.04              | 80.21                   | 49.421            |                    |         |
| 11,600.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 65.69           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,035.24             | 3,954.45              | 80.78                   | 49.951            |                    |         |
| 11,700.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 67.47           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,107.43             | 4,026.10              | 81.33                   | 50.503            |                    |         |
| 11,800.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 69.28           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,180.77             | 4,098.91              | 81.85                   | 51.077            |                    |         |
| 11,900.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 71.09           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,255.19             | 4,172.84              | 82.35                   | 51.670            |                    |         |
| 12,000.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 72.92           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,330.65             | 4,247.81              | 82.83                   | 52.282            |                    |         |
| 12,100.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 74.76           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,407.08             | 4,323.79              | 83.29                   | 52.913            |                    |         |
| 12,200.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 76.61           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,484.44             | 4,400.71              | 83.73                   | 53.559            |                    |         |
| 12,300.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 78.47           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,562.68             | 4,478.53              | 84.15                   | 54.222            |                    |         |
| 12,400.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 80.34           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,641.75             | 4,557.20              | 84.55                   | 54.900            |                    |         |
| 12,500.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 82.22           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,721.62             | 4,636.69              | 84.93                   | 55.592            |                    |         |
| 12,600.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 84.11           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,802.24             | 4,716.94              | 85.30                   | 56.297            |                    |         |
| 12,700.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 86.00           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,883.58             | 4,797.93              | 85.66                   | 57.014            |                    |         |
| 12,800.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 87.90           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,965.60             | 4,879.61              | 85.99                   | 57.744            |                    |         |
| 12,900.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 89.81           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,048.27             | 4,961.96              | 86.32                   | 58.485            |                    |         |
| 13,000.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 91.72           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,131.56             | 5,044.93              | 86.63                   | 59.236            |                    |         |
| 13,100.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 93.64           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,215.43             | 5,128.51              | 86.93                   | 59.997            |                    |         |
| 13,200.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 95.56           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,299.87             | 5,212.65              | 87.21                   | 60.768            |                    |         |
| 13,300.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 97.49           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,384.83             | 5,297.34              | 87.49                   | 61.548            |                    |         |
| 13,400.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 99.42           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,470.31             | 5,382.55              | 87.76                   | 62.336            |                    |         |
| 13,500.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 101.36          | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,556.27             | 5,468.26              | 88.01                   | 63.132            |                    |         |
| 13,600.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 103.30          | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,642.69             | 5,554.43              | 88.26                   | 63.935            |                    |         |
| 13,700.00                    | 8,835.00            | 8,705.95            | 8,702.59            | 105.25          | 29.79       | 87.01                 | -1,799.15                         | -193.01    | 5,729.54             | 5,641.09              | 88.44                   | 64.782            |                    |         |
| 13,800.00                    | 8,835.00            | 8,705.47            | 8,702.11            | 107.20          | 29.79       | 87.01                 | -1,799.13                         | -193.01    | 5,816.82             | 5,728.15              | 88.67                   | 65.601            |                    |         |
| 13,900.00                    | 8,835.00            | 8,704.99            | 8,701.63            | 109.15          | 29.79       | 87.00                 | -1,799.11                         | -193.01    | 5,904.51             | 5,815.62              | 88.89                   | 66.427            |                    |         |
| 14,000.00                    | 8,835.00            | 8,704.51            | 8,701.15            | 111.10          | 29.79       | 86.99                 | -1,799.10                         | -193.00    | 5,992.58             | 5,903.49              | 89.10                   | 67.259            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 438-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 14,100.00                    | 8,835.00            | 8,704.03            | 8,700.68            | 113.06          | 29.79       | 86.98                 | -1,799.08                         | -193.00    | 6,081.03             | 5,991.73              | 89.30                   | 68.096            |                    |         |
| 14,200.00                    | 8,835.00            | 8,703.56            | 8,700.21            | 115.03          | 29.78       | 86.97                 | -1,799.06                         | -193.00    | 6,169.82             | 6,080.33              | 89.50                   | 68.939            |                    |         |
| 14,300.00                    | 8,835.00            | 8,703.09            | 8,699.74            | 116.99          | 29.78       | 86.96                 | -1,799.04                         | -192.99    | 6,258.96             | 6,169.27              | 89.69                   | 69.787            |                    |         |
| 14,400.00                    | 8,835.00            | 8,702.62            | 8,699.27            | 118.96          | 29.78       | 86.95                 | -1,799.02                         | -192.99    | 6,348.41             | 6,258.54              | 89.87                   | 70.640            |                    |         |
| 14,500.00                    | 8,835.00            | 8,702.16            | 8,698.81            | 120.93          | 29.78       | 86.94                 | -1,799.01                         | -192.99    | 6,438.18             | 6,348.13              | 90.05                   | 71.497            |                    |         |
| 14,600.00                    | 8,835.00            | 8,701.69            | 8,698.34            | 122.90          | 29.78       | 86.93                 | -1,798.99                         | -192.98    | 6,528.25             | 6,438.03              | 90.22                   | 72.359            |                    |         |
| 14,700.00                    | 8,835.00            | 8,701.23            | 8,697.88            | 124.88          | 29.78       | 86.92                 | -1,798.97                         | -192.98    | 6,618.60             | 6,528.21              | 90.39                   | 73.225            |                    |         |
| 14,800.00                    | 8,835.00            | 8,700.78            | 8,697.43            | 126.86          | 29.77       | 86.91                 | -1,798.95                         | -192.98    | 6,709.22             | 6,618.67              | 90.55                   | 74.095            |                    |         |
| 14,900.00                    | 8,835.00            | 8,700.32            | 8,696.97            | 128.84          | 29.77       | 86.90                 | -1,798.94                         | -192.97    | 6,800.11             | 6,709.40              | 90.71                   | 74.968            |                    |         |
| 15,000.00                    | 8,835.00            | 8,699.87            | 8,696.52            | 130.82          | 29.77       | 86.89                 | -1,798.92                         | -192.97    | 6,891.24             | 6,800.38              | 90.86                   | 75.845            |                    |         |
| 15,100.00                    | 8,835.00            | 8,699.42            | 8,696.07            | 132.80          | 29.77       | 86.88                 | -1,798.90                         | -192.97    | 6,982.63             | 6,891.62              | 91.01                   | 76.725            |                    |         |
| 15,200.00                    | 8,835.00            | 8,698.97            | 8,695.62            | 134.79          | 29.77       | 86.87                 | -1,798.88                         | -192.96    | 7,074.24             | 6,983.09              | 91.15                   | 77.609            |                    |         |
| 15,300.00                    | 8,835.00            | 8,698.53            | 8,695.18            | 136.78          | 29.77       | 86.86                 | -1,798.87                         | -192.96    | 7,166.08             | 7,074.79              | 91.29                   | 78.495            |                    |         |
| 15,400.00                    | 8,835.00            | 8,698.08            | 8,694.73            | 138.76          | 29.76       | 86.85                 | -1,798.85                         | -192.96    | 7,258.13             | 7,166.70              | 91.43                   | 79.384            |                    |         |
| 15,500.00                    | 8,835.00            | 8,697.64            | 8,694.29            | 140.76          | 29.76       | 86.85                 | -1,798.83                         | -192.95    | 7,350.40             | 7,258.83              | 91.57                   | 80.275            |                    |         |
| 15,600.00                    | 8,835.00            | 8,697.20            | 8,693.85            | 142.75          | 29.76       | 86.84                 | -1,798.82                         | -192.95    | 7,442.86             | 7,351.16              | 91.70                   | 81.169            |                    |         |
| 15,700.00                    | 8,835.00            | 8,696.77            | 8,693.42            | 144.74          | 29.76       | 86.83                 | -1,798.80                         | -192.95    | 7,535.51             | 7,443.69              | 91.82                   | 82.065            |                    |         |
| 15,800.00                    | 8,835.00            | 8,696.33            | 8,692.98            | 146.74          | 29.76       | 86.82                 | -1,798.79                         | -192.94    | 7,628.35             | 7,536.40              | 91.95                   | 82.964            |                    |         |
| 15,900.00                    | 8,835.00            | 8,695.90            | 8,692.55            | 148.73          | 29.76       | 86.81                 | -1,798.77                         | -192.94    | 7,721.37             | 7,629.30              | 92.07                   | 83.864            |                    |         |
| 16,000.00                    | 8,835.00            | 8,695.47            | 8,692.12            | 150.73          | 29.76       | 86.80                 | -1,798.75                         | -192.94    | 7,814.56             | 7,722.37              | 92.19                   | 84.767            |                    |         |
| 16,100.00                    | 8,835.00            | 8,695.04            | 8,691.70            | 152.73          | 29.75       | 86.79                 | -1,798.74                         | -192.94    | 7,907.92             | 7,815.61              | 92.31                   | 85.671            |                    |         |
| 16,200.00                    | 8,835.00            | 8,694.62            | 8,691.27            | 154.73          | 29.75       | 86.78                 | -1,798.72                         | -192.93    | 8,001.44             | 7,909.02              | 92.42                   | 86.577            |                    |         |
| 16,300.00                    | 8,835.00            | 8,694.20            | 8,690.85            | 156.73          | 29.75       | 86.78                 | -1,798.71                         | -192.93    | 8,095.11             | 8,002.58              | 92.53                   | 87.484            |                    |         |
| 16,400.00                    | 8,835.00            | 8,693.78            | 8,690.43            | 158.74          | 29.75       | 86.77                 | -1,798.69                         | -192.93    | 8,188.93             | 8,096.29              | 92.64                   | 88.393            |                    |         |
| 16,500.00                    | 8,835.00            | 8,693.36            | 8,690.01            | 160.74          | 29.75       | 86.76                 | -1,798.67                         | -192.92    | 8,282.90             | 8,190.15              | 92.75                   | 89.303            |                    |         |
| 16,600.00                    | 8,835.00            | 8,692.94            | 8,689.59            | 162.74          | 29.75       | 86.75                 | -1,798.66                         | -192.92    | 8,377.00             | 8,284.15              | 92.86                   | 90.214            |                    |         |
| 16,700.00                    | 8,835.00            | 8,692.53            | 8,689.18            | 164.75          | 29.74       | 86.74                 | -1,798.64                         | -192.92    | 8,471.25             | 8,378.28              | 92.96                   | 91.127            |                    |         |
| 16,800.00                    | 8,835.00            | 8,692.11            | 8,688.77            | 166.76          | 29.74       | 86.73                 | -1,798.63                         | -192.92    | 8,565.62             | 8,472.55              | 93.06                   | 92.041            |                    |         |
| 16,900.00                    | 8,835.00            | 8,691.70            | 8,688.36            | 168.77          | 29.74       | 86.73                 | -1,798.61                         | -192.91    | 8,660.12             | 8,566.95              | 93.16                   | 92.955            |                    |         |
| 17,000.00                    | 8,835.00            | 8,691.30            | 8,687.95            | 170.77          | 29.74       | 86.72                 | -1,798.60                         | -192.91    | 8,754.74             | 8,661.47              | 93.26                   | 93.871            |                    |         |
| 17,100.00                    | 8,835.00            | 8,690.89            | 8,687.55            | 172.78          | 29.74       | 86.71                 | -1,798.58                         | -192.91    | 8,849.48             | 8,756.11              | 93.36                   | 94.787            |                    |         |
| 17,200.00                    | 8,835.00            | 8,690.49            | 8,687.14            | 174.79          | 29.74       | 86.70                 | -1,798.57                         | -192.90    | 8,944.33             | 8,850.87              | 93.46                   | 95.705            |                    |         |
| 17,300.00                    | 8,835.00            | 8,690.08            | 8,686.74            | 176.81          | 29.74       | 86.69                 | -1,798.55                         | -192.90    | 9,039.29             | 8,945.74              | 93.55                   | 96.622            |                    |         |
| 17,400.00                    | 8,835.00            | 8,689.68            | 8,686.34            | 178.82          | 29.73       | 86.68                 | -1,798.54                         | -192.90    | 9,134.36             | 9,040.72              | 93.65                   | 97.541            |                    |         |
| 17,500.00                    | 8,835.00            | 8,689.29            | 8,685.94            | 180.83          | 29.73       | 86.68                 | -1,798.52                         | -192.90    | 9,229.54             | 9,135.80              | 93.74                   | 98.460            |                    |         |
| 17,600.00                    | 8,835.00            | 8,688.89            | 8,685.55            | 182.84          | 29.73       | 86.67                 | -1,798.51                         | -192.89    | 9,324.82             | 9,230.99              | 93.83                   | 99.379            |                    |         |
| 17,700.00                    | 8,835.00            | 8,688.50            | 8,685.15            | 184.86          | 29.73       | 86.66                 | -1,798.50                         | -192.89    | 9,420.19             | 9,326.27              | 93.92                   | 100.299           |                    |         |
| 17,800.00                    | 8,835.00            | 8,688.10            | 8,684.76            | 186.87          | 29.73       | 86.65                 | -1,798.48                         | -192.89    | 9,515.66             | 9,421.65              | 94.01                   | 101.219           |                    |         |
| 17,900.00                    | 8,835.00            | 8,687.71            | 8,684.37            | 188.89          | 29.73       | 86.64                 | -1,798.47                         | -192.89    | 9,611.22             | 9,517.12              | 94.10                   | 102.140           |                    |         |
| 18,000.00                    | 8,835.00            | 8,687.33            | 8,683.98            | 190.91          | 29.73       | 86.64                 | -1,798.45                         | -192.88    | 9,706.87             | 9,612.69              | 94.19                   | 103.060           |                    |         |
| 18,100.00                    | 8,835.00            | 8,686.94            | 8,683.60            | 192.92          | 29.72       | 86.63                 | -1,798.44                         | -192.88    | 9,802.61             | 9,708.34              | 94.27                   | 103.981           |                    |         |
| 18,200.00                    | 8,835.00            | 8,686.56            | 8,683.21            | 194.94          | 29.72       | 86.62                 | -1,798.42                         | -192.88    | 9,898.43             | 9,804.08              | 94.36                   | 104.902           |                    |         |
| 18,300.00                    | 8,835.00            | 8,686.17            | 8,682.83            | 196.96          | 29.72       | 86.61                 | -1,798.41                         | -192.88    | 9,994.34             | 9,899.89              | 94.44                   | 105.823           |                    |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                       | 0.00                | 10.80               | 10.80               | 0.50            | 0.50        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             |                       |                         |                   |                    |         |
| 100.00                     | 100.00              | 110.80              | 110.80              | 0.52            | 0.53        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,527.64              | 1.05                    | 1,460.224         |                    |         |
| 200.00                     | 200.00              | 210.80              | 210.80              | 0.70            | 0.73        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,527.25              | 1.43                    | 1,067.588         |                    |         |
| 300.00                     | 300.00              | 310.80              | 310.80              | 0.99            | 1.02        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,526.68              | 2.01                    | 761.206           |                    |         |
| 400.00                     | 400.00              | 410.80              | 410.80              | 1.31            | 1.34        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,526.03              | 2.65                    | 575.985           |                    |         |
| 500.00                     | 500.00              | 510.80              | 510.80              | 1.65            | 1.68        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,525.36              | 3.33                    | 459.189           |                    |         |
| 600.00                     | 600.00              | 610.80              | 610.80              | 1.99            | 2.03        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,524.67              | 4.02                    | 380.393           |                    |         |
| 700.00                     | 700.00              | 710.80              | 710.80              | 2.34            | 2.38        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,523.97              | 4.72                    | 324.117           |                    |         |
| 800.00                     | 800.00              | 810.80              | 810.80              | 2.69            | 2.73        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,523.27              | 5.42                    | 282.085           |                    |         |
| 900.00                     | 900.00              | 910.80              | 910.80              | 3.04            | 3.08        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,522.56              | 6.13                    | 249.569           |                    |         |
| 1,000.00                   | 1,000.00            | 1,010.80            | 1,010.80            | 3.40            | 3.44        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,521.85              | 6.83                    | 223.701           |                    |         |
| 1,100.00                   | 1,100.00            | 1,110.80            | 1,110.80            | 3.75            | 3.79        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,521.14              | 7.54                    | 202.647           |                    |         |
| 1,200.00                   | 1,200.00            | 1,210.80            | 1,210.80            | 4.11            | 4.15        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,520.43              | 8.25                    | 185.189           |                    |         |
| 1,300.00                   | 1,300.00            | 1,310.80            | 1,310.80            | 4.46            | 4.50        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,519.72              | 8.97                    | 170.483           |                    |         |
| 1,400.00                   | 1,400.00            | 1,410.80            | 1,410.80            | 4.82            | 4.86        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,519.01              | 9.68                    | 157.928           |                    |         |
| 1,500.00                   | 1,500.00            | 1,510.80            | 1,510.80            | 5.18            | 5.22        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,518.29              | 10.39                   | 147.088           |                    |         |
| 1,600.00                   | 1,600.00            | 1,610.80            | 1,610.80            | 5.53            | 5.57        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,517.58              | 11.11                   | 137.635           |                    |         |
| 1,700.00                   | 1,700.00            | 1,710.80            | 1,710.80            | 5.89            | 5.93        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,516.87              | 11.82                   | 129.319           |                    |         |
| 1,800.00                   | 1,800.00            | 1,810.80            | 1,810.80            | 6.25            | 6.29        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,516.15              | 12.54                   | 121.948           |                    |         |
| 1,900.00                   | 1,900.00            | 1,910.80            | 1,910.80            | 6.61            | 6.64        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,515.44              | 13.25                   | 115.370           |                    |         |
| 2,000.00                   | 2,000.00            | 2,010.80            | 2,010.80            | 6.96            | 7.00        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,514.72              | 13.97                   | 109.463           |                    |         |
| 2,100.00                   | 2,099.99            | 2,110.79            | 2,110.79            | 7.32            | 7.36        | 12.66                 | 1,528.68                          | -3.38      | 1,527.84             | 1,513.16              | 14.68                   | 104.074           |                    |         |
| 2,200.00                   | 2,199.96            | 2,210.76            | 2,210.76            | 7.68            | 7.72        | 12.69                 | 1,528.68                          | -3.38      | 1,525.28             | 1,509.89              | 15.40                   | 99.075            |                    |         |
| 2,300.00                   | 2,299.86            | 2,310.66            | 2,310.66            | 8.04            | 8.07        | 12.73                 | 1,528.68                          | -3.38      | 1,521.03             | 1,504.92              | 16.11                   | 94.414            |                    |         |
| 2,400.00                   | 2,399.68            | 2,398.15            | 2,398.15            | 8.39            | 8.39        | 12.79                 | 1,528.68                          | -3.43      | 1,515.32             | 1,498.54              | 16.78                   | 90.305            |                    |         |
| 2,500.00                   | 2,499.37            | 2,477.64            | 2,477.63            | 8.75            | 8.67        | 12.84                 | 1,530.06                          | -3.74      | 1,509.15             | 1,491.73              | 17.42                   | 86.639            |                    |         |
| 2,600.00                   | 2,598.90            | 2,557.19            | 2,557.15            | 9.11            | 8.96        | 12.90                 | 1,532.31                          | -4.32      | 1,502.62             | 1,484.57              | 18.06                   | 83.222            |                    |         |
| 2,700.00                   | 2,698.26            | 2,636.80            | 2,636.68            | 9.46            | 9.24        | 12.96                 | 1,535.63                          | -5.19      | 1,495.74             | 1,477.05              | 18.69                   | 80.028            |                    |         |
| 2,800.00                   | 2,797.40            | 2,716.46            | 2,716.21            | 9.82            | 9.53        | 13.02                 | 1,540.02                          | -6.33      | 1,488.50             | 1,469.18              | 19.32                   | 77.033            |                    |         |
| 2,900.00                   | 2,896.30            | 2,796.18            | 2,795.73            | 10.18           | 9.81        | 13.09                 | 1,545.49                          | -7.75      | 1,480.91             | 1,460.96              | 19.95                   | 74.218            |                    |         |
| 3,000.00                   | 2,994.93            | 2,875.98            | 2,875.24            | 10.54           | 10.09       | 13.15                 | 1,552.03                          | -9.45      | 1,472.97             | 1,452.39              | 20.58                   | 71.564            |                    |         |
| 3,100.00                   | 3,093.26            | 2,955.84            | 2,954.71            | 10.90           | 10.38       | 13.22                 | 1,559.65                          | -11.43     | 1,464.68             | 1,443.47              | 21.21                   | 69.056            |                    |         |
| 3,195.07                   | 3,186.42            | 3,031.82            | 3,030.21            | 11.24           | 10.65       | 13.29                 | 1,567.90                          | -13.57     | 1,456.47             | 1,434.66              | 21.81                   | 66.794            |                    |         |
| 3,200.00                   | 3,191.25            | 3,035.77            | 3,034.13            | 11.26           | 10.67       | 13.30                 | 1,568.36                          | -13.69     | 1,456.04             | 1,434.20              | 21.84                   | 66.679            |                    |         |
| 3,300.00                   | 3,289.08            | 3,115.84            | 3,113.56            | 11.62           | 10.95       | 13.34                 | 1,578.15                          | -16.23     | 1,447.98             | 1,425.52              | 22.46                   | 64.465            |                    |         |
| 3,400.00                   | 3,386.91            | 3,196.07            | 3,193.00            | 11.98           | 11.24       | 13.38                 | 1,589.03                          | -19.06     | 1,441.27             | 1,418.18              | 23.09                   | 62.431            |                    |         |
| 3,500.00                   | 3,484.74            | 3,276.45            | 3,272.42            | 12.35           | 11.52       | 13.40                 | 1,601.02                          | -22.18     | 1,435.91             | 1,412.20              | 23.71                   | 60.563            |                    |         |
| 3,600.00                   | 3,582.58            | 3,356.93            | 3,351.75            | 12.72           | 11.81       | 13.42                 | 1,614.10                          | -25.58     | 1,431.90             | 1,407.57              | 24.33                   | 58.848            |                    |         |
| 3,700.00                   | 3,680.41            | 3,445.03            | 3,438.40            | 13.09           | 12.13       | 13.42                 | 1,629.53                          | -29.59     | 1,429.15             | 1,404.15              | 25.00                   | 57.175            |                    |         |
| 3,800.00                   | 3,778.24            | 3,545.00            | 3,536.68            | 13.46           | 12.49       | 13.42                 | 1,647.26                          | -34.20     | 1,426.65             | 1,400.92              | 25.73                   | 55.451            |                    |         |
| 3,900.00                   | 3,876.08            | 3,644.97            | 3,634.95            | 13.83           | 12.85       | 13.42                 | 1,664.99                          | -38.81     | 1,424.15             | 1,397.69              | 26.46                   | 53.817            |                    |         |
| 4,000.00                   | 3,973.91            | 3,744.94            | 3,733.23            | 14.21           | 13.21       | 13.42                 | 1,682.73                          | -43.41     | 1,421.65             | 1,394.45              | 27.20                   | 52.268            |                    |         |
| 4,100.00                   | 4,071.74            | 3,844.90            | 3,831.50            | 14.58           | 13.57       | 13.42                 | 1,700.46                          | -48.02     | 1,419.15             | 1,391.21              | 27.94                   | 50.798            |                    |         |
| 4,200.00                   | 4,169.57            | 3,944.87            | 3,929.78            | 14.96           | 13.94       | 13.42                 | 1,718.19                          | -52.63     | 1,416.65             | 1,387.97              | 28.68                   | 49.400            |                    |         |
| 4,300.00                   | 4,267.41            | 4,044.84            | 4,028.05            | 15.33           | 14.31       | 13.42                 | 1,735.93                          | -57.24     | 1,414.15             | 1,384.73              | 29.42                   | 48.070            |                    |         |
| 4,400.00                   | 4,365.24            | 4,144.81            | 4,126.33            | 15.71           | 14.67       | 13.42                 | 1,753.66                          | -61.85     | 1,411.65             | 1,381.49              | 30.16                   | 46.803            |                    |         |
| 4,500.00                   | 4,463.07            | 4,244.78            | 4,224.60            | 16.09           | 15.04       | 13.42                 | 1,771.40                          | -66.46     | 1,409.15             | 1,378.25              | 30.91                   | 45.595            |                    |         |
| 4,600.00                   | 4,560.90            | 4,344.75            | 4,322.88            | 16.47           | 15.41       | 13.42                 | 1,789.13                          | -71.07     | 1,406.65             | 1,375.00              | 31.65                   | 44.442            |                    |         |
| 4,700.00                   | 4,658.74            | 4,444.72            | 4,421.15            | 16.85           | 15.78       | 13.42                 | 1,806.86                          | -75.68     | 1,404.15             | 1,371.75              | 32.40                   | 43.340            |                    |         |
| 4,800.00                   | 4,756.57            | 4,544.69            | 4,519.43            | 17.23           | 16.15       | 13.42                 | 1,824.60                          | -80.28     | 1,401.65             | 1,368.51              | 33.15                   | 42.287            |                    |         |
| 4,900.00                   | 4,854.40            | 4,644.65            | 4,617.70            | 17.61           | 16.52       | 13.43                 | 1,842.33                          | -84.89     | 1,399.15             | 1,365.26              | 33.89                   | 41.279            |                    |         |
| 5,000.00                   | 4,952.23            | 4,744.62            | 4,715.98            | 17.99           | 16.89       | 13.43                 | 1,860.06                          | -89.50     | 1,396.65             | 1,362.01              | 34.64                   | 40.314            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                   | 5,050.07            | 4,844.59            | 4,814.25            | 18.37           | 17.27       | 13.43                 | 1,877.80                          | -94.11     | 1,394.15             | 1,358.76              | 35.40                   | 39.388            |                    |         |
| 5,200.00                   | 5,147.90            | 4,944.56            | 4,912.53            | 18.75           | 17.64       | 13.43                 | 1,895.53                          | -98.72     | 1,391.65             | 1,355.51              | 36.15                   | 38.500            |                    |         |
| 5,300.00                   | 5,245.73            | 5,044.53            | 5,010.80            | 19.14           | 18.01       | 13.43                 | 1,913.27                          | -103.33    | 1,389.15             | 1,352.26              | 36.90                   | 37.648            |                    |         |
| 5,400.00                   | 5,343.56            | 5,144.50            | 5,109.08            | 19.52           | 18.39       | 13.43                 | 1,931.00                          | -107.94    | 1,386.65             | 1,349.00              | 37.65                   | 36.828            |                    |         |
| 5,500.00                   | 5,441.40            | 5,244.47            | 5,207.35            | 19.90           | 18.76       | 13.43                 | 1,948.73                          | -112.55    | 1,384.15             | 1,345.75              | 38.41                   | 36.041            |                    |         |
| 5,600.00                   | 5,539.23            | 5,344.44            | 5,305.63            | 20.29           | 19.14       | 13.43                 | 1,966.47                          | -117.15    | 1,381.65             | 1,342.49              | 39.16                   | 35.282            |                    |         |
| 5,700.00                   | 5,637.06            | 5,444.40            | 5,403.90            | 20.67           | 19.51       | 13.43                 | 1,984.20                          | -121.76    | 1,379.15             | 1,339.24              | 39.91                   | 34.553            |                    |         |
| 5,800.00                   | 5,734.90            | 5,544.37            | 5,502.18            | 21.05           | 19.89       | 13.43                 | 2,001.94                          | -126.37    | 1,376.66             | 1,335.99              | 40.67                   | 33.849            |                    |         |
| 5,900.00                   | 5,832.73            | 5,644.34            | 5,600.46            | 21.44           | 20.26       | 13.43                 | 2,019.67                          | -130.98    | 1,374.16             | 1,332.73              | 41.43                   | 33.171            |                    |         |
| 6,000.00                   | 5,930.56            | 5,744.31            | 5,698.73            | 21.83           | 20.64       | 13.43                 | 2,037.40                          | -135.59    | 1,371.66             | 1,329.47              | 42.18                   | 32.517            |                    |         |
| 6,100.00                   | 6,028.39            | 5,844.28            | 5,797.01            | 22.21           | 21.02       | 13.43                 | 2,055.14                          | -140.20    | 1,369.16             | 1,326.22              | 42.94                   | 31.885            |                    |         |
| 6,200.00                   | 6,126.23            | 5,944.25            | 5,895.28            | 22.60           | 21.39       | 13.43                 | 2,072.87                          | -144.81    | 1,366.66             | 1,322.96              | 43.70                   | 31.276            |                    |         |
| 6,300.00                   | 6,224.06            | 6,044.22            | 5,993.56            | 22.98           | 21.77       | 13.43                 | 2,090.60                          | -149.42    | 1,364.16             | 1,319.70              | 44.46                   | 30.686            |                    |         |
| 6,400.00                   | 6,321.89            | 6,144.19            | 6,091.83            | 23.37           | 22.15       | 13.43                 | 2,108.34                          | -154.02    | 1,361.66             | 1,316.44              | 45.21                   | 30.116            |                    |         |
| 6,500.00                   | 6,419.72            | 6,244.15            | 6,190.11            | 23.76           | 22.53       | 13.43                 | 2,126.07                          | -158.63    | 1,359.16             | 1,313.18              | 45.97                   | 29.565            |                    |         |
| 6,600.00                   | 6,517.56            | 6,344.12            | 6,288.38            | 24.14           | 22.91       | 13.43                 | 2,143.81                          | -163.24    | 1,356.66             | 1,309.93              | 46.73                   | 29.031            |                    |         |
| 6,700.00                   | 6,615.39            | 6,444.09            | 6,386.66            | 24.53           | 23.28       | 13.43                 | 2,161.54                          | -167.85    | 1,354.16             | 1,306.67              | 47.49                   | 28.514            |                    |         |
| 6,800.00                   | 6,713.22            | 6,544.06            | 6,484.93            | 24.92           | 23.66       | 13.43                 | 2,179.27                          | -172.46    | 1,351.66             | 1,303.41              | 48.25                   | 28.013            |                    |         |
| 6,900.00                   | 6,811.05            | 6,644.03            | 6,583.21            | 25.30           | 24.04       | 13.43                 | 2,197.01                          | -177.07    | 1,349.16             | 1,300.15              | 49.01                   | 27.528            |                    |         |
| 7,000.00                   | 6,908.89            | 6,744.00            | 6,681.48            | 25.69           | 24.42       | 13.43                 | 2,214.74                          | -181.68    | 1,346.66             | 1,296.89              | 49.77                   | 27.057            |                    |         |
| 7,100.00                   | 7,006.72            | 6,843.97            | 6,779.76            | 26.08           | 24.80       | 13.43                 | 2,232.47                          | -186.29    | 1,344.16             | 1,293.63              | 50.53                   | 26.600            |                    |         |
| 7,200.00                   | 7,104.55            | 6,943.94            | 6,878.03            | 26.47           | 25.18       | 13.43                 | 2,250.21                          | -190.90    | 1,341.66             | 1,290.37              | 51.29                   | 26.157            |                    |         |
| 7,216.87                   | 7,121.05            | 6,960.80            | 6,894.61            | 26.53           | 25.24       | 13.43                 | 2,253.20                          | -191.67    | 1,341.24             | 1,289.82              | 51.42                   | 26.083            |                    |         |
| 7,300.00                   | 7,202.57            | 7,043.92            | 6,976.32            | 26.85           | 25.56       | 13.42                 | 2,267.95                          | -195.50    | 1,340.04             | 1,287.99              | 52.05                   | 25.744            |                    |         |
| 7,315.04                   | 7,217.35            | 7,058.96            | 6,991.11            | 26.91           | 25.62       | 13.42                 | 2,270.61                          | -196.20    | 1,340.01             | 1,287.84              | 52.17                   | 25.687 CC         |                    |         |
| 7,400.00                   | 7,301.06            | 7,143.91            | 7,074.62            | 27.23           | 25.94       | 13.39                 | 2,285.68                          | -200.11    | 1,340.93             | 1,288.12              | 52.81                   | 25.392            |                    |         |
| 7,500.00                   | 7,399.97            | 7,243.84            | 7,172.86            | 27.61           | 26.32       | 13.34                 | 2,303.41                          | -204.72    | 1,344.37             | 1,290.81              | 53.56                   | 25.100            |                    |         |
| 7,600.00                   | 7,499.23            | 7,343.64            | 7,270.96            | 27.98           | 26.70       | 13.28                 | 2,321.11                          | -209.32    | 1,350.35             | 1,296.05              | 54.30                   | 24.866            |                    |         |
| 7,700.00                   | 7,598.77            | 7,443.24            | 7,368.87            | 28.34           | 27.08       | 13.20                 | 2,338.78                          | -213.91    | 1,358.88             | 1,303.84              | 55.04                   | 24.688            |                    |         |
| 7,800.00                   | 7,698.53            | 7,558.57            | 7,482.30            | 28.70           | 27.52       | 13.08                 | 2,358.98                          | -219.16    | 1,369.78             | 1,313.92              | 55.86                   | 24.521            |                    |         |
| 7,900.00                   | 7,798.44            | 7,711.08            | 7,633.04            | 29.05           | 28.09       | 12.93                 | 2,381.37                          | -224.98    | 1,380.31             | 1,323.49              | 56.83                   | 24.290            |                    |         |
| 8,000.00                   | 7,898.42            | 7,864.43            | 7,785.42            | 29.39           | 28.65       | 12.80                 | 2,397.99                          | -229.30    | 1,389.54             | 1,331.83              | 57.71                   | 24.077            |                    |         |
| 8,013.58                   | 7,912.00            | 7,885.32            | 7,806.22            | 29.43           | 28.73       | 0.01                  | 2,399.79                          | -229.77    | 1,390.69             | 1,332.86              | 57.83                   | 24.050            |                    |         |
| 8,100.00                   | 7,998.42            | 8,018.62            | 7,939.20            | 29.73           | 29.20       | -0.09                 | 2,408.72                          | -232.09    | 1,396.48             | 1,337.96              | 58.52                   | 23.864            |                    |         |
| 8,200.00                   | 8,098.42            | 8,173.46            | 8,093.95            | 30.07           | 29.75       | -0.14                 | 2,413.45                          | -233.32    | 1,399.54             | 1,340.29              | 59.25                   | 23.623            |                    |         |
| 8,300.00                   | 8,198.42            | 8,288.74            | 8,209.22            | 30.41           | 30.15       | -0.14                 | 2,413.68                          | -233.38    | 1,399.69             | 1,339.75              | 59.93                   | 23.354            |                    |         |
| 8,363.62                   | 8,262.04            | 8,352.35            | 8,272.84            | 30.62           | 30.36       | -0.14                 | 2,413.68                          | -233.38    | 1,399.69             | 1,339.31              | 60.37                   | 23.184            |                    |         |
| 8,400.00                   | 8,298.40            | 8,388.71            | 8,309.20            | 30.75           | 30.49       | -89.84                | 2,413.68                          | -233.38    | 1,399.68             | 1,339.06              | 60.62                   | 23.090            |                    |         |
| 8,439.07                   | 8,337.27            | 8,427.59            | 8,348.07            | 30.87           | 30.62       | -90.00                | 2,413.68                          | -233.38    | 1,399.68             | 1,338.80              | 60.88                   | 22.991            |                    |         |
| 8,450.00                   | 8,348.10            | 8,438.41            | 8,358.90            | 30.91           | 30.66       | -90.06                | 2,413.68                          | -233.38    | 1,399.68             | 1,338.73              | 60.95                   | 22.964            |                    |         |
| 8,500.00                   | 8,397.14            | 8,487.45            | 8,407.94            | 31.07           | 30.83       | -90.45                | 2,413.68                          | -233.38    | 1,399.72             | 1,338.44              | 61.28                   | 22.842            |                    |         |
| 8,550.00                   | 8,445.15            | 8,535.47            | 8,455.95            | 31.23           | 31.00       | -90.97                | 2,413.68                          | -233.38    | 1,399.90             | 1,338.30              | 61.60                   | 22.726            |                    |         |
| 8,600.00                   | 8,491.77            | 8,583.35            | 8,503.83            | 31.38           | 31.16       | -91.63                | 2,413.68                          | -233.13    | 1,400.34             | 1,338.43              | 61.91                   | 22.619            |                    |         |
| 8,650.00                   | 8,536.65            | 8,634.39            | 8,554.72            | 31.52           | 31.33       | -92.34                | 2,413.71                          | -229.37    | 1,401.03             | 1,338.83              | 62.20                   | 22.525            |                    |         |
| 8,700.00                   | 8,579.43            | 8,687.40            | 8,606.99            | 31.66           | 31.50       | -93.05                | 2,413.76                          | -220.68    | 1,401.97             | 1,339.49              | 62.48                   | 22.440            |                    |         |
| 8,750.00                   | 8,619.80            | 8,742.57            | 8,660.30            | 31.80           | 31.68       | -93.75                | 2,413.84                          | -206.56    | 1,403.12             | 1,340.38              | 62.74                   | 22.365            |                    |         |
| 8,800.00                   | 8,657.44            | 8,800.11            | 8,714.18            | 31.93           | 31.86       | -94.44                | 2,413.96                          | -186.43    | 1,404.47             | 1,341.48              | 62.99                   | 22.298            |                    |         |
| 8,850.00                   | 8,692.08            | 8,860.21            | 8,768.01            | 32.06           | 32.04       | -95.12                | 2,414.12                          | -159.76    | 1,405.97             | 1,342.75              | 63.22                   | 22.240            |                    |         |
| 8,900.00                   | 8,723.44            | 8,923.04            | 8,820.97            | 32.19           | 32.22       | -95.77                | 2,414.32                          | -126.01    | 1,407.57             | 1,344.13              | 63.44                   | 22.188            |                    |         |
| 8,950.00                   | 8,751.29            | 8,988.73            | 8,872.04            | 32.34           | 32.40       | -96.40                | 2,414.57                          | -84.76     | 1,409.21             | 1,345.55              | 63.66                   | 22.137            |                    |         |
| 9,000.00                   | 8,775.42            | 9,057.31            | 8,919.95            | 32.50           | 32.59       | -96.98                | 2,414.86                          | -35.75     | 1,410.83             | 1,346.94              | 63.89                   | 22.083            |                    |         |
| 9,050.00                   | 8,795.64            | 9,128.74            | 8,963.26            | 32.67           | 32.80       | -97.50                | 2,415.20                          | 21.00      | 1,412.34             | 1,348.19              | 64.15                   | 22.017            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |        | Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 621H - Wellbore #1 - Permit Plan 1 |         | Offset Site Error: 0.00 ft |  |
|----------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|--------|--------------------------------------------------------------------------------------|---------|----------------------------|--|
| Survey Program: 0-MWD+IFR1 |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |        | Offset Well Error: 0.50 ft                                                           |         |                            |  |
| Reference                  |                | Offset         |                | Semi Major Axis |        |                   | Distance               |                 |                  |                    |                   |        |                                                                                      | Warning |                            |  |
| Measured Depth             | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor |        |                                                                                      |         |                            |  |
| (ft)                       | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft)      | (ft)             | (ft)               | (ft)              |        |                                                                                      |         |                            |  |
| 9,100.00                   | 8,811.80       | 9,202.84       | 9,000.37       | 32.87           | 33.05  | -97.95            | 2,415.58               | 85.07           | 1,413.67         | 1,349.21           | 64.46             | 21.930 |                                                                                      |         |                            |  |
| 9,150.00                   | 8,823.77       | 9,279.25       | 9,029.66       | 33.10           | 33.35  | -98.30            | 2,416.00               | 155.59          | 1,414.76         | 1,349.89           | 64.86             | 21.811 |                                                                                      |         |                            |  |
| 9,200.00                   | 8,831.47       | 9,357.49       | 9,049.65       | 33.34           | 33.69  | -98.55            | 2,416.45               | 231.16          | 1,415.52         | 1,350.16           | 65.37             | 21.656 |                                                                                      |         |                            |  |
| 9,250.00                   | 8,834.84       | 9,436.90       | 9,059.23       | 33.60           | 34.09  | -98.68            | 2,416.92               | 309.92          | 1,415.93         | 1,349.94           | 65.99             | 21.457 |                                                                                      |         |                            |  |
| 9,263.62                   | 8,835.00       | 9,458.63       | 9,059.94       | 33.67           | 34.21  | -98.70            | 2,417.05               | 331.65          | 1,415.97         | 1,349.79           | 66.18             | 21.397 |                                                                                      |         |                            |  |
| 9,300.00                   | 8,835.00       | 9,502.02       | 9,060.00       | 33.88           | 34.45  | -98.70            | 2,417.28               | 370.99          | 1,415.97         | 1,349.35           | 66.62             | 21.253 |                                                                                      |         |                            |  |
| 9,400.00                   | 8,835.00       | 9,597.98       | 9,060.00       | 34.53           | 35.07  | -98.70            | 2,417.88               | 470.99          | 1,415.97         | 1,348.10           | 67.87             | 20.862 |                                                                                      |         |                            |  |
| 9,500.00                   | 8,835.00       | 9,702.02       | 9,060.00       | 35.30           | 35.85  | -98.70            | 2,418.48               | 570.98          | 1,415.97         | 1,346.58           | 69.39             | 20.405 |                                                                                      |         |                            |  |
| 9,600.00                   | 8,835.00       | 9,802.02       | 9,060.00       | 36.17           | 36.70  | -98.70            | 2,419.07               | 670.98          | 1,415.97         | 1,344.89           | 71.09             | 19.919 |                                                                                      |         |                            |  |
| 9,700.00                   | 8,835.00       | 9,902.02       | 9,060.00       | 37.13           | 37.65  | -98.70            | 2,419.67               | 770.98          | 1,415.97         | 1,343.01           | 72.96             | 19.407 |                                                                                      |         |                            |  |
| 9,800.00                   | 8,835.00       | 10,002.02      | 9,060.00       | 38.18           | 38.69  | -98.70            | 2,420.26               | 870.98          | 1,415.97         | 1,340.96           | 75.01             | 18.877 |                                                                                      |         |                            |  |
| 9,900.00                   | 8,835.00       | 10,102.02      | 9,060.00       | 39.31           | 39.80  | -98.70            | 2,420.86               | 970.98          | 1,415.97         | 1,338.75           | 77.22             | 18.337 |                                                                                      |         |                            |  |
| 10,000.00                  | 8,835.00       | 10,202.02      | 9,060.00       | 40.51           | 40.98  | -98.70            | 2,421.46               | 1,070.98        | 1,415.97         | 1,336.40           | 79.57             | 17.795 |                                                                                      |         |                            |  |
| 10,100.00                  | 8,835.00       | 10,302.02      | 9,060.00       | 41.78           | 42.24  | -98.70            | 2,422.05               | 1,170.97        | 1,415.97         | 1,333.92           | 82.06             | 17.256 |                                                                                      |         |                            |  |
| 10,200.00                  | 8,835.00       | 10,402.02      | 9,060.00       | 43.10           | 43.55  | -98.70            | 2,422.65               | 1,270.97        | 1,415.97         | 1,331.31           | 84.66             | 16.725 |                                                                                      |         |                            |  |
| 10,300.00                  | 8,835.00       | 10,502.02      | 9,060.00       | 44.49           | 44.91  | -98.70            | 2,423.24               | 1,370.97        | 1,415.97         | 1,328.59           | 87.38             | 16.205 |                                                                                      |         |                            |  |
| 10,400.00                  | 8,835.00       | 10,602.02      | 9,060.00       | 45.92           | 46.33  | -98.70            | 2,423.84               | 1,470.97        | 1,415.97         | 1,325.78           | 90.20             | 15.699 |                                                                                      |         |                            |  |
| 10,500.00                  | 8,835.00       | 10,697.98      | 9,060.00       | 47.39           | 47.73  | -98.70            | 2,424.44               | 1,570.97        | 1,415.97         | 1,322.93           | 93.04             | 15.218 |                                                                                      |         |                            |  |
| 10,600.00                  | 8,835.00       | 10,797.98      | 9,060.00       | 48.91           | 49.24  | -98.70            | 2,425.03               | 1,670.97        | 1,415.97         | 1,319.94           | 96.03             | 14.745 |                                                                                      |         |                            |  |
| 10,700.00                  | 8,835.00       | 10,902.02      | 9,060.00       | 50.47           | 50.84  | -98.70            | 2,425.63               | 1,770.96        | 1,415.97         | 1,316.81           | 99.16             | 14.280 |                                                                                      |         |                            |  |
| 10,800.00                  | 8,835.00       | 10,997.98      | 9,060.00       | 52.06           | 52.35  | -98.70            | 2,426.22               | 1,870.96        | 1,415.97         | 1,313.74           | 102.23            | 13.851 |                                                                                      |         |                            |  |
| 10,900.00                  | 8,835.00       | 11,102.02      | 9,060.00       | 53.68           | 54.03  | -98.70            | 2,426.82               | 1,970.96        | 1,415.97         | 1,310.48           | 105.49            | 13.423 |                                                                                      |         |                            |  |
| 11,000.00                  | 8,835.00       | 11,197.98      | 9,060.00       | 55.32           | 55.60  | -98.70            | 2,427.41               | 2,070.96        | 1,415.97         | 1,307.29           | 108.68            | 13.029 |                                                                                      |         |                            |  |
| 11,100.00                  | 8,835.00       | 11,302.02      | 9,060.00       | 57.00           | 57.33  | -98.70            | 2,428.01               | 2,170.96        | 1,415.97         | 1,303.92           | 112.05            | 12.637 |                                                                                      |         |                            |  |
| 11,200.00                  | 8,835.00       | 11,402.02      | 9,060.00       | 58.70           | 59.01  | -98.70            | 2,428.61               | 2,270.95        | 1,415.97         | 1,300.57           | 115.40            | 12.270 |                                                                                      |         |                            |  |
| 11,300.00                  | 8,835.00       | 11,502.02      | 9,060.00       | 60.41           | 60.72  | -98.70            | 2,429.20               | 2,370.95        | 1,415.97         | 1,297.17           | 118.80            | 11.919 |                                                                                      |         |                            |  |
| 11,400.00                  | 8,835.00       | 11,602.02      | 9,060.00       | 62.15           | 62.45  | -98.70            | 2,429.80               | 2,470.95        | 1,415.97         | 1,293.74           | 122.24            | 11.584 |                                                                                      |         |                            |  |
| 11,500.00                  | 8,835.00       | 11,702.02      | 9,060.00       | 63.91           | 64.20  | -98.70            | 2,430.39               | 2,570.95        | 1,415.97         | 1,290.26           | 125.71            | 11.264 |                                                                                      |         |                            |  |
| 11,600.00                  | 8,835.00       | 11,802.02      | 9,060.00       | 65.69           | 65.97  | -98.70            | 2,430.99               | 2,670.95        | 1,415.97         | 1,286.76           | 129.22            | 10.958 |                                                                                      |         |                            |  |
| 11,700.00                  | 8,835.00       | 11,902.02      | 9,060.00       | 67.47           | 67.75  | -98.70            | 2,431.59               | 2,770.95        | 1,415.97         | 1,283.22           | 132.75            | 10.666 |                                                                                      |         |                            |  |
| 11,800.00                  | 8,835.00       | 11,997.98      | 9,060.00       | 69.28           | 69.47  | -98.70            | 2,432.18               | 2,870.94        | 1,415.97         | 1,279.73           | 136.25            | 10.393 |                                                                                      |         |                            |  |
| 11,900.00                  | 8,835.00       | 12,102.02      | 9,060.00       | 71.09           | 71.35  | -98.70            | 2,432.78               | 2,970.94        | 1,415.97         | 1,276.06           | 139.91            | 10.120 |                                                                                      |         |                            |  |
| 12,000.00                  | 8,835.00       | 12,202.02      | 9,060.00       | 72.92           | 73.17  | -98.70            | 2,433.37               | 3,070.94        | 1,415.97         | 1,272.44           | 143.53            | 9.865  |                                                                                      |         |                            |  |
| 12,100.00                  | 8,835.00       | 12,297.98      | 9,060.00       | 74.76           | 74.93  | -98.70            | 2,433.97               | 3,170.94        | 1,415.97         | 1,268.88           | 147.09            | 9.626  |                                                                                      |         |                            |  |
| 12,200.00                  | 8,835.00       | 12,402.02      | 9,060.00       | 76.61           | 76.85  | -98.70            | 2,434.57               | 3,270.94        | 1,415.97         | 1,265.14           | 150.83            | 9.388  |                                                                                      |         |                            |  |
| 12,300.00                  | 8,835.00       | 12,502.02      | 9,060.00       | 78.47           | 78.70  | -98.70            | 2,435.16               | 3,370.94        | 1,415.97         | 1,261.46           | 154.51            | 9.164  |                                                                                      |         |                            |  |
| 12,400.00                  | 8,835.00       | 12,602.02      | 9,060.00       | 80.34           | 80.57  | -98.70            | 2,435.76               | 3,470.93        | 1,415.97         | 1,257.77           | 158.21            | 8.950  |                                                                                      |         |                            |  |
| 12,500.00                  | 8,835.00       | 12,702.02      | 9,060.00       | 82.22           | 82.44  | -98.70            | 2,436.35               | 3,570.93        | 1,415.97         | 1,254.05           | 161.92            | 8.745  |                                                                                      |         |                            |  |
| 12,600.00                  | 8,835.00       | 12,802.02      | 9,060.00       | 84.11           | 84.32  | -98.70            | 2,436.95               | 3,670.93        | 1,415.97         | 1,250.32           | 165.65            | 8.548  |                                                                                      |         |                            |  |
| 12,700.00                  | 8,835.00       | 12,902.02      | 9,060.00       | 86.00           | 86.21  | -98.70            | 2,437.54               | 3,770.93        | 1,415.97         | 1,246.57           | 169.40            | 8.359  |                                                                                      |         |                            |  |
| 12,800.00                  | 8,835.00       | 13,002.02      | 9,060.00       | 87.90           | 88.10  | -98.70            | 2,438.14               | 3,870.93        | 1,415.97         | 1,242.82           | 173.16            | 8.177  |                                                                                      |         |                            |  |
| 12,900.00                  | 8,835.00       | 13,102.02      | 9,060.00       | 89.81           | 90.00  | -98.70            | 2,438.74               | 3,970.92        | 1,415.97         | 1,239.04           | 176.93            | 8.003  |                                                                                      |         |                            |  |
| 13,000.00                  | 8,835.00       | 13,202.02      | 9,060.00       | 91.72           | 91.91  | -98.70            | 2,439.33               | 4,070.92        | 1,415.97         | 1,235.26           | 180.71            | 7.835  |                                                                                      |         |                            |  |
| 13,100.00                  | 8,835.00       | 13,302.03      | 9,060.00       | 93.64           | 93.83  | -98.70            | 2,439.93               | 4,170.92        | 1,415.97         | 1,231.46           | 184.51            | 7.674  |                                                                                      |         |                            |  |
| 13,200.00                  | 8,835.00       | 13,402.03      | 9,060.00       | 95.56           | 95.74  | -98.70            | 2,440.52               | 4,270.92        | 1,415.97         | 1,227.66           | 188.31            | 7.519  |                                                                                      |         |                            |  |
| 13,300.00                  | 8,835.00       | 13,502.03      | 9,060.00       | 97.49           | 97.67  | -98.70            | 2,441.12               | 4,370.92        | 1,415.97         | 1,223.84           | 192.13            | 7.370  |                                                                                      |         |                            |  |
| 13,400.00                  | 8,835.00       | 13,602.03      | 9,060.00       | 99.42           | 99.60  | -98.70            | 2,441.72               | 4,470.92        | 1,415.97         | 1,220.02           | 195.96            | 7.226  |                                                                                      |         |                            |  |
| 13,500.00                  | 8,835.00       | 13,702.03      | 9,060.00       | 101.36          | 101.53 | -98.70            | 2,442.31               | 4,570.91        | 1,415.97         | 1,216.18           | 199.79            | 7.087  |                                                                                      |         |                            |  |
| 13,600.00                  | 8,835.00       | 13,802.03      | 9,060.00       | 103.30          | 103.47 | -98.70            | 2,442.91               | 4,670.91        | 1,415.97         | 1,212.34           | 203.63            | 6.954  |                                                                                      |         |                            |  |
| 13,700.00                  | 8,835.00       | 13,902.03      | 9,060.00       | 105.25          | 105.41 | -98.70            | 2,443.50               | 4,770.91        | 1,415.97         | 1,208.49           | 207.48            | 6.825  |                                                                                      |         |                            |  |
| 13,800.00                  | 8,835.00       | 14,002.03      | 9,060.00       | 107.20          | 107.36 | -98.70            | 2,444.10               | 4,870.91        | 1,415.97         | 1,204.63           | 211.34            | 6.700  |                                                                                      |         |                            |  |
| 13,900.00                  | 8,835.00       | 14,097.98      | 9,060.00       | 109.15          | 109.23 | -98.70            | 2,444.70               | 4,970.91        | 1,415.97         | 1,200.84           | 215.13            | 6.582  |                                                                                      |         |                            |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |       | Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 621H - Wellbore #1 - Permit Plan 1 |         | Offset Site Error: 0.00 ft |  |
|----------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|-------|--------------------------------------------------------------------------------------|---------|----------------------------|--|
| Survey Program: 0-MWD+IFR1 |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |       | Offset Well Error: 0.50 ft                                                           |         |                            |  |
| Reference                  |                | Offset         |                | Semi Major Axis |        |                   | Distance               |                 |                  |                    |                   |       |                                                                                      | Warning |                            |  |
| Measured Depth             | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor |       |                                                                                      |         |                            |  |
| (ft)                       | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft)      | (ft)             | (ft)               | (ft)              |       |                                                                                      |         |                            |  |
| 14,000.00                  | 8,835.00       | 14,202.03      | 9,060.00       | 111.10          | 111.26 | -98.70            | 2,445.29               | 5,070.90        | 1,415.97         | 1,196.89           | 219.08            | 6.463 |                                                                                      |         |                            |  |
| 14,100.00                  | 8,835.00       | 14,302.03      | 9,060.00       | 113.06          | 113.22 | -98.70            | 2,445.89               | 5,170.90        | 1,415.97         | 1,193.02           | 222.96            | 6.351 |                                                                                      |         |                            |  |
| 14,200.00                  | 8,835.00       | 14,402.03      | 9,060.00       | 115.03          | 115.18 | -98.70            | 2,446.48               | 5,270.90        | 1,415.97         | 1,189.13           | 226.84            | 6.242 |                                                                                      |         |                            |  |
| 14,300.00                  | 8,835.00       | 14,502.03      | 9,060.00       | 116.99          | 117.14 | -98.70            | 2,447.08               | 5,370.90        | 1,415.97         | 1,185.24           | 230.73            | 6.137 |                                                                                      |         |                            |  |
| 14,400.00                  | 8,835.00       | 14,602.03      | 9,060.00       | 118.96          | 119.10 | -98.70            | 2,447.67               | 5,470.90        | 1,415.97         | 1,181.35           | 234.63            | 6.035 |                                                                                      |         |                            |  |
| 14,500.00                  | 8,835.00       | 14,702.03      | 9,060.00       | 120.93          | 121.07 | -98.70            | 2,448.27               | 5,570.90        | 1,415.97         | 1,177.44           | 238.53            | 5.936 |                                                                                      |         |                            |  |
| 14,600.00                  | 8,835.00       | 14,802.03      | 9,060.00       | 122.90          | 123.04 | -98.70            | 2,448.87               | 5,670.89        | 1,415.97         | 1,173.54           | 242.43            | 5.841 |                                                                                      |         |                            |  |
| 14,700.00                  | 8,835.00       | 14,902.03      | 9,060.00       | 124.88          | 125.01 | -98.70            | 2,449.46               | 5,770.89        | 1,415.97         | 1,169.63           | 246.34            | 5.748 |                                                                                      |         |                            |  |
| 14,800.00                  | 8,835.00       | 15,002.03      | 9,060.00       | 126.86          | 126.99 | -98.70            | 2,450.06               | 5,870.89        | 1,415.97         | 1,165.71           | 250.26            | 5.658 |                                                                                      |         |                            |  |
| 14,900.00                  | 8,835.00       | 15,102.03      | 9,060.00       | 128.84          | 128.97 | -98.70            | 2,450.65               | 5,970.89        | 1,415.97         | 1,161.80           | 254.18            | 5.571 |                                                                                      |         |                            |  |
| 15,000.00                  | 8,835.00       | 15,202.03      | 9,060.00       | 130.82          | 130.95 | -98.70            | 2,451.25               | 6,070.89        | 1,415.97         | 1,157.87           | 258.10            | 5.486 |                                                                                      |         |                            |  |
| 15,100.00                  | 8,835.00       | 15,302.03      | 9,060.00       | 132.80          | 132.93 | -98.70            | 2,451.85               | 6,170.89        | 1,415.97         | 1,153.95           | 262.03            | 5.404 |                                                                                      |         |                            |  |
| 15,200.00                  | 8,835.00       | 15,402.03      | 9,060.00       | 134.79          | 134.91 | -98.70            | 2,452.44               | 6,270.88        | 1,415.97         | 1,150.01           | 265.96            | 5.324 |                                                                                      |         |                            |  |
| 15,300.00                  | 8,835.00       | 15,502.03      | 9,060.00       | 136.78          | 136.90 | -98.70            | 2,453.04               | 6,370.88        | 1,415.97         | 1,146.08           | 269.89            | 5.246 |                                                                                      |         |                            |  |
| 15,400.00                  | 8,835.00       | 15,602.03      | 9,060.00       | 138.76          | 138.88 | -98.70            | 2,453.63               | 6,470.88        | 1,415.97         | 1,142.14           | 273.83            | 5.171 |                                                                                      |         |                            |  |
| 15,500.00                  | 8,835.00       | 15,702.03      | 9,060.00       | 140.76          | 140.87 | -98.70            | 2,454.23               | 6,570.88        | 1,415.97         | 1,138.20           | 277.77            | 5.098 |                                                                                      |         |                            |  |
| 15,600.00                  | 8,835.00       | 15,802.03      | 9,060.00       | 142.75          | 142.86 | -98.70            | 2,454.83               | 6,670.88        | 1,415.97         | 1,134.26           | 281.71            | 5.026 |                                                                                      |         |                            |  |
| 15,700.00                  | 8,835.00       | 15,902.03      | 9,060.00       | 144.74          | 144.86 | -98.70            | 2,455.42               | 6,770.87        | 1,415.97         | 1,130.31           | 285.66            | 4.957 | Alert                                                                                |         |                            |  |
| 15,800.00                  | 8,835.00       | 16,002.03      | 9,060.00       | 146.74          | 146.85 | -98.70            | 2,456.02               | 6,870.87        | 1,415.97         | 1,126.36           | 289.61            | 4.889 | Alert                                                                                |         |                            |  |
| 15,900.00                  | 8,835.00       | 16,102.03      | 9,060.00       | 148.73          | 148.84 | -98.70            | 2,456.61               | 6,970.87        | 1,415.97         | 1,122.41           | 293.56            | 4.823 | Alert                                                                                |         |                            |  |
| 16,000.00                  | 8,835.00       | 16,202.03      | 9,060.00       | 150.73          | 150.84 | -98.70            | 2,457.21               | 7,070.87        | 1,415.97         | 1,118.45           | 297.52            | 4.759 | Alert                                                                                |         |                            |  |
| 16,100.00                  | 8,835.00       | 16,302.03      | 9,060.00       | 152.73          | 152.84 | -98.70            | 2,457.80               | 7,170.87        | 1,415.97         | 1,114.50           | 301.48            | 4.697 | Alert                                                                                |         |                            |  |
| 16,200.00                  | 8,835.00       | 16,402.03      | 9,060.00       | 154.73          | 154.84 | -98.70            | 2,458.40               | 7,270.87        | 1,415.97         | 1,110.54           | 305.44            | 4.636 | Alert                                                                                |         |                            |  |
| 16,300.00                  | 8,835.00       | 16,502.03      | 9,060.00       | 156.73          | 156.84 | -98.70            | 2,459.00               | 7,370.86        | 1,415.97         | 1,106.57           | 309.40            | 4.577 | Alert                                                                                |         |                            |  |
| 16,400.00                  | 8,835.00       | 16,602.03      | 9,060.00       | 158.74          | 158.84 | -98.70            | 2,459.59               | 7,470.86        | 1,415.97         | 1,102.61           | 313.36            | 4.519 | Alert                                                                                |         |                            |  |
| 16,500.00                  | 8,835.00       | 16,702.03      | 9,060.00       | 160.74          | 160.84 | -98.70            | 2,460.19               | 7,570.86        | 1,415.97         | 1,098.64           | 317.33            | 4.462 | Alert                                                                                |         |                            |  |
| 16,600.00                  | 8,835.00       | 16,802.03      | 9,060.00       | 162.74          | 162.85 | -98.70            | 2,460.78               | 7,670.86        | 1,415.97         | 1,094.67           | 321.30            | 4.407 | Alert                                                                                |         |                            |  |
| 16,700.00                  | 8,835.00       | 16,902.03      | 9,060.00       | 164.75          | 164.85 | -98.70            | 2,461.38               | 7,770.86        | 1,415.97         | 1,090.70           | 325.27            | 4.353 | Alert                                                                                |         |                            |  |
| 16,800.00                  | 8,835.00       | 17,002.03      | 9,060.00       | 166.76          | 166.86 | -98.70            | 2,461.98               | 7,870.86        | 1,415.97         | 1,086.73           | 329.24            | 4.301 | Alert                                                                                |         |                            |  |
| 16,900.00                  | 8,835.00       | 17,102.03      | 9,060.00       | 168.77          | 168.86 | -98.70            | 2,462.57               | 7,970.85        | 1,415.97         | 1,082.75           | 333.22            | 4.249 | Alert                                                                                |         |                            |  |
| 17,000.00                  | 8,835.00       | 17,202.03      | 9,060.00       | 170.77          | 170.87 | -98.70            | 2,463.17               | 8,070.85        | 1,415.97         | 1,078.78           | 337.19            | 4.199 | Alert                                                                                |         |                            |  |
| 17,100.00                  | 8,835.00       | 17,302.03      | 9,060.00       | 172.78          | 172.88 | -98.70            | 2,463.76               | 8,170.85        | 1,415.97         | 1,074.80           | 341.17            | 4.150 | Alert                                                                                |         |                            |  |
| 17,200.00                  | 8,835.00       | 17,402.03      | 9,060.00       | 174.79          | 174.89 | -98.70            | 2,464.36               | 8,270.85        | 1,415.97         | 1,070.82           | 345.15            | 4.102 | Alert                                                                                |         |                            |  |
| 17,300.00                  | 8,835.00       | 17,502.03      | 9,060.00       | 176.81          | 176.90 | -98.70            | 2,464.96               | 8,370.85        | 1,415.97         | 1,066.84           | 349.13            | 4.056 | Alert                                                                                |         |                            |  |
| 17,400.00                  | 8,835.00       | 17,602.03      | 9,060.00       | 178.82          | 178.91 | -98.70            | 2,465.55               | 8,470.84        | 1,415.97         | 1,062.85           | 353.12            | 4.010 | Alert                                                                                |         |                            |  |
| 17,500.00                  | 8,835.00       | 17,702.03      | 9,060.00       | 180.83          | 180.92 | -98.70            | 2,466.15               | 8,570.84        | 1,415.97         | 1,058.87           | 357.10            | 3.965 | Alert                                                                                |         |                            |  |
| 17,600.00                  | 8,835.00       | 17,802.03      | 9,060.00       | 182.84          | 182.93 | -98.70            | 2,466.74               | 8,670.84        | 1,415.97         | 1,054.88           | 361.09            | 3.921 | Alert                                                                                |         |                            |  |
| 17,700.00                  | 8,835.00       | 17,902.03      | 9,060.00       | 184.86          | 184.95 | -98.70            | 2,467.34               | 8,770.84        | 1,415.97         | 1,050.89           | 365.08            | 3.879 | Alert                                                                                |         |                            |  |
| 17,800.00                  | 8,835.00       | 18,002.03      | 9,060.00       | 186.87          | 186.96 | -98.70            | 2,467.94               | 8,870.84        | 1,415.97         | 1,046.91           | 369.07            | 3.837 | Alert                                                                                |         |                            |  |
| 17,900.00                  | 8,835.00       | 18,102.03      | 9,060.00       | 188.89          | 188.97 | -98.70            | 2,468.53               | 8,970.84        | 1,415.97         | 1,042.92           | 373.06            | 3.796 | Alert                                                                                |         |                            |  |
| 18,000.00                  | 8,835.00       | 18,202.03      | 9,060.00       | 190.91          | 190.99 | -98.70            | 2,469.13               | 9,070.83        | 1,415.97         | 1,038.92           | 377.05            | 3.755 | Alert                                                                                |         |                            |  |
| 18,100.00                  | 8,835.00       | 18,302.03      | 9,060.00       | 192.92          | 193.01 | -98.70            | 2,469.72               | 9,170.83        | 1,415.97         | 1,034.93           | 381.04            | 3.716 | Alert                                                                                |         |                            |  |
| 18,200.00                  | 8,835.00       | 18,402.03      | 9,060.00       | 194.94          | 195.02 | -98.70            | 2,470.32               | 9,270.83        | 1,415.97         | 1,030.94           | 385.03            | 3.678 | Alert                                                                                |         |                            |  |
| 18,300.00                  | 8,835.00       | 18,502.03      | 9,060.00       | 196.96          | 197.04 | -98.70            | 2,470.91               | 9,370.83        | 1,415.97         | 1,026.94           | 389.03            | 3.640 | Alert                                                                                |         |                            |  |
| 18,400.00                  | 8,835.00       | 18,602.03      | 9,060.00       | 198.98          | 199.06 | -98.70            | 2,471.51               | 9,470.83        | 1,415.97         | 1,022.94           | 393.03            | 3.603 | Alert                                                                                |         |                            |  |
| 18,500.00                  | 8,835.00       | 18,702.03      | 9,060.00       | 201.00          | 201.08 | -98.70            | 2,472.11               | 9,570.83        | 1,415.97         | 1,018.95           | 397.02            | 3.566 | Alert                                                                                |         |                            |  |
| 18,600.00                  | 8,835.00       | 18,802.03      | 9,060.00       | 203.02          | 203.10 | -98.70            | 2,472.70               | 9,670.82        | 1,415.97         | 1,014.95           | 401.02            | 3.531 | Alert                                                                                |         |                            |  |
| 18,700.00                  | 8,835.00       | 18,902.03      | 9,060.00       | 205.04          | 205.11 | -98.70            | 2,473.30               | 9,770.82        | 1,415.97         | 1,010.95           | 405.02            | 3.496 | Alert                                                                                |         |                            |  |
| 18,800.00                  | 8,835.00       | 19,002.03      | 9,060.00       | 207.06          | 207.13 | -98.70            | 2,473.89               | 9,870.82        | 1,415.97         | 1,006.95           | 409.02            | 3.462 | Alert                                                                                |         |                            |  |
| 18,900.00                  | 8,835.00       | 19,102.03      | 9,060.00       | 209.08          | 209.16 | -98.70            | 2,474.49               | 9,970.82        | 1,415.97         | 1,002.95           | 413.02            | 3.428 | Alert                                                                                |         |                            |  |
| 19,000.00                  | 8,835.00       | 19,202.03      | 9,060.00       | 211.10          | 211.18 | -98.70            | 2,475.09               | 10,070.82       | 1,415.97         | 998.94             | 417.03            | 3.395 | Alert                                                                                |         |                            |  |
| 19,100.00                  | 8,835.00       | 19,302.03      | 9,060.00       | 213.12          | 213.20 | -98.70            | 2,475.68               | 10,170.81       | 1,415.97         | 994.94             | 421.03            | 3.363 | Alert                                                                                |         |                            |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 621H - Wellbore #1 - Permit Plan 1 |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 0.00 ft       |
|-----------------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|---------------|
| Survey Program: 0-MWD+IFR1                                                                                |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 0.50 ft       |
| Reference                                                                                                 |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                           | Warning       |
| Measured Depth<br>(ft)                                                                                    | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |               |
| 19,200.00                                                                                                 | 8,835.00               | 19,402.03              | 9,060.00               | 215.15            | 215.22         | -98.70                      | 2,476.28                                | 10,270.81     | 1,415.97                   | 990.94                      | 425.03                        | 3.331                     | Alert         |
| 19,308.27                                                                                                 | 8,835.00               | 19,506.25              | 9,060.00               | 217.34            | 217.33         | -98.70                      | 2,476.92                                | 10,379.08     | 1,415.97                   | 986.68                      | 429.29                        | 3.298                     | Alert, ES, SF |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                     | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                     | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                     |                    | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor   |                    |         |
| 0.00                       | 0.00                | 0.90                | -0.90               | 0.50            | 0.50        | 179.89                | -59.98                            | 0.11       | 59.98                |                       |                         |                     |                    |         |
| 100.00                     | 100.00              | 100.90              | 99.10               | 0.52            | 0.52        | 179.89                | -59.98                            | 0.11       | 59.98                | 58.94                 | 1.04                    | 57.876              |                    |         |
| 200.00                     | 200.00              | 200.90              | 199.10              | 0.70            | 0.70        | 179.89                | -59.98                            | 0.11       | 59.98                | 58.57                 | 1.41                    | 42.646              |                    |         |
| 300.00                     | 300.00              | 300.90              | 299.10              | 0.99            | 0.99        | 179.89                | -59.98                            | 0.11       | 59.98                | 58.00                 | 1.98                    | 30.332              |                    |         |
| 400.00                     | 400.00              | 400.90              | 399.10              | 1.31            | 1.31        | 179.89                | -59.98                            | 0.11       | 59.98                | 57.36                 | 2.62                    | 22.883              |                    |         |
| 500.00                     | 500.00              | 500.90              | 499.10              | 1.65            | 1.65        | 179.89                | -59.98                            | 0.11       | 59.98                | 56.68                 | 3.30                    | 18.202              |                    |         |
| 600.00                     | 600.00              | 600.90              | 599.10              | 1.99            | 1.99        | 179.89                | -59.98                            | 0.11       | 59.98                | 56.00                 | 3.98                    | 15.054              |                    |         |
| 700.00                     | 700.00              | 700.90              | 699.10              | 2.34            | 2.34        | 179.89                | -59.98                            | 0.11       | 59.98                | 55.30                 | 4.68                    | 12.811              |                    |         |
| 800.00                     | 800.00              | 800.90              | 799.10              | 2.69            | 2.69        | 179.89                | -59.98                            | 0.11       | 59.98                | 54.60                 | 5.38                    | 11.140              |                    |         |
| 900.00                     | 900.00              | 900.90              | 899.10              | 3.04            | 3.05        | 179.89                | -59.98                            | 0.11       | 59.98                | 53.89                 | 6.09                    | 9.849               |                    |         |
| 1,000.00                   | 1,000.00            | 1,000.90            | 999.10              | 3.40            | 3.40        | 179.89                | -59.98                            | 0.11       | 59.98                | 53.18                 | 6.80                    | 8.823               |                    |         |
| 1,100.00                   | 1,100.00            | 1,100.90            | 1,099.10            | 3.75            | 3.76        | 179.89                | -59.98                            | 0.11       | 59.98                | 52.47                 | 7.51                    | 7.988               |                    |         |
| 1,200.00                   | 1,200.00            | 1,200.90            | 1,199.10            | 4.11            | 4.11        | 179.89                | -59.98                            | 0.11       | 59.98                | 51.76                 | 8.22                    | 7.297               |                    |         |
| 1,300.00                   | 1,300.00            | 1,300.90            | 1,299.10            | 4.46            | 4.47        | 179.89                | -59.98                            | 0.11       | 59.98                | 51.05                 | 8.93                    | 6.716               |                    |         |
| 1,400.00                   | 1,400.00            | 1,400.90            | 1,399.10            | 4.82            | 4.82        | 179.89                | -59.98                            | 0.11       | 59.98                | 50.34                 | 9.64                    | 6.219               |                    |         |
| 1,500.00                   | 1,500.00            | 1,500.90            | 1,499.10            | 5.18            | 5.18        | 179.89                | -59.98                            | 0.11       | 59.98                | 49.62                 | 10.36                   | 5.791               |                    |         |
| 1,600.00                   | 1,600.00            | 1,600.90            | 1,599.10            | 5.53            | 5.54        | 179.89                | -59.98                            | 0.11       | 59.98                | 48.91                 | 11.07                   | 5.418               |                    |         |
| 1,700.00                   | 1,700.00            | 1,700.90            | 1,699.10            | 5.89            | 5.89        | 179.89                | -59.98                            | 0.11       | 59.98                | 48.19                 | 11.79                   | 5.089               |                    |         |
| 1,800.00                   | 1,800.00            | 1,800.90            | 1,799.10            | 6.25            | 6.25        | 179.89                | -59.98                            | 0.11       | 59.98                | 47.48                 | 12.50                   | 4.798 Alert         |                    |         |
| 1,900.00                   | 1,900.00            | 1,900.90            | 1,899.10            | 6.61            | 6.61        | 179.89                | -59.98                            | 0.11       | 59.98                | 46.77                 | 13.21                   | 4.539 Alert         |                    |         |
| 2,000.00                   | 2,000.00            | 2,000.90            | 1,999.10            | 6.96            | 6.97        | 179.89                | -59.98                            | 0.11       | 59.98                | 46.05                 | 13.93                   | 4.306 Alert, CC, ES |                    |         |
| 2,100.00                   | 2,099.99            | 2,100.91            | 2,099.09            | 7.32            | 7.32        | -167.50               | -59.98                            | 0.11       | 60.83                | 46.19                 | 14.64                   | 4.154 Alert         |                    |         |
| 2,200.00                   | 2,199.96            | 2,200.94            | 2,199.06            | 7.68            | 7.68        | -168.01               | -59.98                            | 0.11       | 63.39                | 48.03                 | 15.36                   | 4.127 Alert         |                    |         |
| 2,300.00                   | 2,299.86            | 2,301.04            | 2,298.96            | 8.04            | 8.04        | -168.77               | -59.98                            | 0.11       | 67.66                | 51.59                 | 16.08                   | 4.209 Alert         |                    |         |
| 2,400.00                   | 2,399.68            | 2,401.22            | 2,398.78            | 8.39            | 8.40        | -169.68               | -59.98                            | 0.11       | 73.66                | 56.87                 | 16.79                   | 4.387 Alert         |                    |         |
| 2,500.00                   | 2,499.37            | 2,498.47            | 2,498.47            | 8.75            | 8.75        | -170.66               | -59.98                            | 0.11       | 81.39                | 63.90                 | 17.50                   | 4.652 Alert         |                    |         |
| 2,600.00                   | 2,598.90            | 2,596.79            | 2,596.79            | 9.11            | 9.08        | -171.29               | -60.66                            | -0.35      | 91.51                | 73.33                 | 18.19                   | 5.032               |                    |         |
| 2,700.00                   | 2,698.26            | 2,694.61            | 2,694.57            | 9.46            | 9.40        | -171.35               | -62.72                            | -1.74      | 104.69               | 85.83                 | 18.86                   | 5.551               |                    |         |
| 2,800.00                   | 2,797.40            | 2,791.78            | 2,791.65            | 9.82            | 9.72        | -171.02               | -66.13                            | -4.05      | 120.89               | 101.37                | 19.53                   | 6.191               |                    |         |
| 2,900.00                   | 2,896.30            | 2,888.17            | 2,887.87            | 10.18           | 10.04       | -170.45               | -70.87                            | -7.25      | 140.11               | 119.92                | 20.19                   | 6.941               |                    |         |
| 3,000.00                   | 2,994.93            | 2,984.51            | 2,983.95            | 10.54           | 10.36       | -169.78               | -76.83                            | -11.29     | 162.23               | 141.37                | 20.85                   | 7.780               |                    |         |
| 3,100.00                   | 3,093.26            | 3,081.57            | 3,080.71            | 10.90           | 10.69       | -169.30               | -83.07                            | -15.51     | 186.26               | 164.73                | 21.53                   | 8.651               |                    |         |
| 3,195.07                   | 3,186.42            | 3,173.45            | 3,172.31            | 11.24           | 10.99       | -169.02               | -88.98                            | -19.51     | 210.65               | 188.47                | 22.18                   | 9.499               |                    |         |
| 3,200.00                   | 3,191.25            | 3,178.21            | 3,177.06            | 11.26           | 11.01       | -169.01               | -89.28                            | -19.71     | 211.95               | 189.74                | 22.21                   | 9.543               |                    |         |
| 3,300.00                   | 3,289.08            | 3,274.65            | 3,273.21            | 11.62           | 11.34       | -168.86               | -95.49                            | -23.91     | 238.40               | 215.51                | 22.89                   | 10.416              |                    |         |
| 3,400.00                   | 3,386.91            | 3,371.09            | 3,369.35            | 11.98           | 11.66       | -168.73               | -101.69                           | -28.10     | 264.85               | 241.28                | 23.57                   | 11.237              |                    |         |
| 3,500.00                   | 3,484.74            | 3,467.52            | 3,465.50            | 12.35           | 11.99       | -168.63               | -107.89                           | -32.30     | 291.30               | 267.04                | 24.25                   | 12.011              |                    |         |
| 3,600.00                   | 3,582.58            | 3,563.96            | 3,561.65            | 12.72           | 12.32       | -168.55               | -114.09                           | -36.50     | 317.75               | 292.81                | 24.94                   | 12.741              |                    |         |
| 3,700.00                   | 3,680.41            | 3,660.40            | 3,657.79            | 13.09           | 12.65       | -168.48               | -120.30                           | -40.69     | 344.20               | 318.57                | 25.63                   | 13.431              |                    |         |
| 3,800.00                   | 3,778.24            | 3,756.84            | 3,753.94            | 13.46           | 12.99       | -168.42               | -126.50                           | -44.89     | 370.65               | 344.33                | 26.32                   | 14.083              |                    |         |
| 3,900.00                   | 3,876.08            | 3,853.28            | 3,850.09            | 13.83           | 13.32       | -168.37               | -132.70                           | -49.08     | 397.10               | 370.09                | 27.01                   | 14.702              |                    |         |
| 4,000.00                   | 3,973.91            | 3,949.71            | 3,946.23            | 14.21           | 13.66       | -168.32               | -138.90                           | -53.28     | 423.55               | 395.84                | 27.70                   | 15.288              |                    |         |
| 4,100.00                   | 4,071.74            | 4,046.15            | 4,042.38            | 14.58           | 13.99       | -168.28               | -145.10                           | -57.47     | 450.00               | 421.60                | 28.40                   | 15.845              |                    |         |
| 4,200.00                   | 4,169.57            | 4,142.59            | 4,138.53            | 14.96           | 14.33       | -168.24               | -151.31                           | -61.67     | 476.45               | 447.35                | 29.10                   | 16.374              |                    |         |
| 4,300.00                   | 4,267.41            | 4,239.03            | 4,234.67            | 15.33           | 14.67       | -168.21               | -157.51                           | -65.87     | 502.90               | 473.10                | 29.80                   | 16.877              |                    |         |
| 4,400.00                   | 4,365.24            | 4,335.46            | 4,330.82            | 15.71           | 15.00       | -168.18               | -163.71                           | -70.06     | 529.35               | 498.85                | 30.50                   | 17.357              |                    |         |
| 4,500.00                   | 4,463.07            | 4,431.90            | 4,426.97            | 16.09           | 15.34       | -168.16               | -169.91                           | -74.26     | 555.80               | 524.60                | 31.20                   | 17.814              |                    |         |
| 4,600.00                   | 4,560.90            | 4,528.34            | 4,523.11            | 16.47           | 15.68       | -168.13               | -176.12                           | -78.45     | 582.25               | 550.35                | 31.90                   | 18.251              |                    |         |
| 4,700.00                   | 4,658.74            | 4,624.78            | 4,619.26            | 16.85           | 16.02       | -168.11               | -182.32                           | -82.65     | 608.71               | 576.10                | 32.61                   | 18.668              |                    |         |
| 4,800.00                   | 4,756.57            | 4,721.22            | 4,715.41            | 17.23           | 16.36       | -168.09               | -188.52                           | -86.84     | 635.16               | 601.85                | 33.31                   | 19.067              |                    |         |
| 4,900.00                   | 4,854.40            | 4,817.65            | 4,811.55            | 17.61           | 16.70       | -168.07               | -194.72                           | -91.04     | 661.61               | 627.59                | 34.02                   | 19.449              |                    |         |
| 5,000.00                   | 4,952.23            | 4,914.09            | 4,907.70            | 17.99           | 17.05       | -168.06               | -200.92                           | -95.23     | 688.06               | 653.34                | 34.72                   | 19.815              |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                   | 5,050.07            | 5,010.53            | 5,003.85            | 18.37           | 17.39       | -168.04               | -207.13                           | -99.43     | 714.51               | 679.08                | 35.43                   | 20.165            |                    |         |
| 5,200.00                   | 5,147.90            | 5,106.97            | 5,099.99            | 18.75           | 17.73       | -168.03               | -213.33                           | -103.63    | 740.97               | 704.83                | 36.14                   | 20.502            |                    |         |
| 5,300.00                   | 5,245.73            | 5,203.41            | 5,196.14            | 19.14           | 18.07       | -168.01               | -219.53                           | -107.82    | 767.42               | 730.57                | 36.85                   | 20.825            |                    |         |
| 5,400.00                   | 5,343.56            | 5,300.16            | 5,292.29            | 19.52           | 18.42       | -168.00               | -225.73                           | -112.02    | 793.87               | 756.31                | 37.56                   | 21.135            |                    |         |
| 5,500.00                   | 5,441.40            | 5,403.72            | 5,388.43            | 19.90           | 18.79       | -167.99               | -231.93                           | -116.21    | 820.32               | 782.02                | 38.30                   | 21.419            |                    |         |
| 5,600.00                   | 5,539.23            | 5,507.28            | 5,484.58            | 20.29           | 19.16       | -167.98               | -238.14                           | -120.41    | 846.78               | 807.74                | 39.04                   | 21.692            |                    |         |
| 5,700.00                   | 5,637.06            | 5,589.16            | 5,580.73            | 20.67           | 19.45       | -167.97               | -244.34                           | -124.60    | 873.23               | 833.53                | 39.70                   | 21.998            |                    |         |
| 5,800.00                   | 5,734.90            | 5,685.59            | 5,676.87            | 21.05           | 19.79       | -167.96               | -250.54                           | -128.80    | 899.68               | 859.27                | 40.41                   | 22.264            |                    |         |
| 5,900.00                   | 5,832.73            | 5,782.03            | 5,773.02            | 21.44           | 20.14       | -167.95               | -256.74                           | -132.99    | 926.13               | 885.01                | 41.12                   | 22.521            |                    |         |
| 6,000.00                   | 5,930.56            | 5,878.47            | 5,869.17            | 21.83           | 20.48       | -167.94               | -262.95                           | -137.19    | 952.58               | 910.75                | 41.84                   | 22.769            |                    |         |
| 6,100.00                   | 6,028.39            | 5,974.91            | 5,965.31            | 22.21           | 20.83       | -167.93               | -269.15                           | -141.39    | 979.04               | 936.48                | 42.55                   | 23.008            |                    |         |
| 6,200.00                   | 6,126.23            | 6,071.35            | 6,061.46            | 22.60           | 21.18       | -167.92               | -275.35                           | -145.58    | 1,005.49             | 962.22                | 43.27                   | 23.239            |                    |         |
| 6,300.00                   | 6,224.06            | 6,167.78            | 6,157.61            | 22.98           | 21.52       | -167.92               | -281.55                           | -149.78    | 1,031.94             | 987.96                | 43.98                   | 23.462            |                    |         |
| 6,400.00                   | 6,321.89            | 6,264.22            | 6,253.75            | 23.37           | 21.87       | -167.91               | -287.75                           | -153.97    | 1,058.39             | 1,013.69              | 44.70                   | 23.678            |                    |         |
| 6,500.00                   | 6,419.72            | 6,360.66            | 6,349.90            | 23.76           | 22.22       | -167.90               | -293.96                           | -158.17    | 1,084.85             | 1,039.43              | 45.42                   | 23.887            |                    |         |
| 6,600.00                   | 6,517.56            | 6,457.10            | 6,446.05            | 24.14           | 22.56       | -167.90               | -300.16                           | -162.36    | 1,111.30             | 1,065.17              | 46.13                   | 24.089            |                    |         |
| 6,700.00                   | 6,615.39            | 6,553.53            | 6,542.19            | 24.53           | 22.91       | -167.89               | -306.36                           | -166.56    | 1,137.75             | 1,090.90              | 46.85                   | 24.285            |                    |         |
| 6,800.00                   | 6,713.22            | 6,649.97            | 6,638.34            | 24.92           | 23.26       | -167.88               | -312.56                           | -170.76    | 1,164.20             | 1,116.63              | 47.57                   | 24.474            |                    |         |
| 6,900.00                   | 6,811.05            | 6,746.41            | 6,734.49            | 25.30           | 23.60       | -167.88               | -318.77                           | -174.95    | 1,190.66             | 1,142.37              | 48.29                   | 24.658            |                    |         |
| 7,000.00                   | 6,908.89            | 6,842.85            | 6,830.63            | 25.69           | 23.95       | -167.87               | -324.97                           | -179.15    | 1,217.11             | 1,168.10              | 49.01                   | 24.836            |                    |         |
| 7,100.00                   | 7,006.72            | 6,939.29            | 6,926.78            | 26.08           | 24.30       | -167.87               | -331.17                           | -183.34    | 1,243.56             | 1,193.84              | 49.73                   | 25.009            |                    |         |
| 7,200.00                   | 7,104.55            | 7,035.72            | 7,022.93            | 26.47           | 24.65       | -167.86               | -337.37                           | -187.54    | 1,270.01             | 1,219.57              | 50.44                   | 25.176            |                    |         |
| 7,216.87                   | 7,121.05            | 7,051.99            | 7,039.14            | 26.53           | 24.71       | -167.86               | -338.42                           | -188.25    | 1,274.48             | 1,223.91              | 50.57                   | 25.204            |                    |         |
| 7,300.00                   | 7,202.57            | 7,132.39            | 7,119.30            | 26.85           | 25.00       | -167.92               | -343.59                           | -191.74    | 1,295.61             | 1,244.45              | 51.16                   | 25.323            |                    |         |
| 7,400.00                   | 7,301.06            | 7,229.67            | 7,216.28            | 27.23           | 25.35       | -167.96               | -349.84                           | -195.98    | 1,318.76             | 1,266.88              | 51.88                   | 25.418            |                    |         |
| 7,500.00                   | 7,399.97            | 7,327.50            | 7,313.82            | 27.61           | 25.70       | -167.96               | -356.14                           | -200.23    | 1,339.42             | 1,286.81              | 52.60                   | 25.463            |                    |         |
| 7,600.00                   | 7,499.23            | 7,425.82            | 7,411.84            | 27.98           | 26.06       | -167.94               | -362.46                           | -204.51    | 1,357.56             | 1,304.24              | 53.32                   | 25.461            |                    |         |
| 7,700.00                   | 7,598.77            | 7,524.56            | 7,510.28            | 28.34           | 26.41       | -167.88               | -368.81                           | -208.80    | 1,373.18             | 1,319.15              | 54.03                   | 25.413            |                    |         |
| 7,800.00                   | 7,698.53            | 7,623.65            | 7,609.08            | 28.70           | 26.77       | -167.80               | -375.18                           | -213.12    | 1,386.28             | 1,331.53              | 54.75                   | 25.322            |                    |         |
| 7,900.00                   | 7,798.44            | 7,723.02            | 7,708.15            | 29.05           | 27.13       | -167.69               | -381.57                           | -217.44    | 1,396.84             | 1,341.39              | 55.45                   | 25.189            |                    |         |
| 8,000.00                   | 7,898.42            | 7,822.62            | 7,807.44            | 29.39           | 27.49       | -167.55               | -387.98                           | -221.77    | 1,404.87             | 1,348.71              | 56.16                   | 25.016            |                    |         |
| 8,013.58                   | 7,912.00            | 7,836.15            | 7,820.94            | 29.43           | 27.54       | 179.69                | -388.85                           | -222.36    | 1,405.76             | 1,349.51              | 56.25                   | 24.990            |                    |         |
| 8,100.00                   | 7,998.42            | 7,949.43            | 7,933.95            | 29.73           | 27.95       | 179.87                | -395.28                           | -226.71    | 1,410.72             | 1,353.68              | 57.04                   | 24.731            |                    |         |
| 8,200.00                   | 8,098.42            | 8,093.45            | 8,077.87            | 30.07           | 28.47       | 179.98                | -399.53                           | -229.59    | 1,413.67             | 1,355.66              | 58.01                   | 24.371            |                    |         |
| 8,300.00                   | 8,198.42            | 8,213.11            | 8,197.52            | 30.41           | 28.88       | 180.00                | -399.98                           | -229.89    | 1,413.98             | 1,355.19              | 58.80                   | 24.049            |                    |         |
| 8,363.62                   | 8,262.04            | 8,276.73            | 8,261.14            | 30.62           | 29.09       | 180.00                | -399.98                           | -229.89    | 1,413.98             | 1,354.75              | 59.23                   | 23.873            |                    |         |
| 8,400.00                   | 8,298.40            | 8,313.08            | 8,297.50            | 30.75           | 29.21       | 90.38                 | -399.98                           | -229.89    | 1,413.99             | 1,354.51              | 59.48                   | 23.774            |                    |         |
| 8,450.00                   | 8,348.10            | 8,362.78            | 8,347.20            | 30.91           | 29.38       | 90.59                 | -399.98                           | -229.89    | 1,414.03             | 1,354.23              | 59.81                   | 23.643            |                    |         |
| 8,500.00                   | 8,397.14            | 8,411.82            | 8,396.24            | 31.07           | 29.55       | 90.96                 | -399.98                           | -229.89    | 1,414.17             | 1,354.03              | 60.14                   | 23.516            |                    |         |
| 8,550.00                   | 8,445.15            | 8,459.84            | 8,444.25            | 31.23           | 29.71       | 91.47                 | -399.98                           | -229.89    | 1,414.48             | 1,354.01              | 60.46                   | 23.395            |                    |         |
| 8,600.00                   | 8,491.77            | 8,506.46            | 8,490.87            | 31.38           | 29.87       | 92.09                 | -399.98                           | -229.89    | 1,415.08             | 1,354.30              | 60.78                   | 23.282            |                    |         |
| 8,650.00                   | 8,536.65            | 8,558.87            | 8,543.21            | 31.52           | 30.04       | 92.85                 | -399.95                           | -227.60    | 1,416.01             | 1,354.88              | 61.13                   | 23.165            |                    |         |
| 8,700.00                   | 8,579.43            | 8,613.76            | 8,597.56            | 31.66           | 30.23       | 93.61                 | -399.87                           | -220.09    | 1,417.19             | 1,355.70              | 61.48                   | 23.051            |                    |         |
| 8,750.00                   | 8,619.80            | 8,671.24            | 8,653.44            | 31.80           | 30.41       | 94.36                 | -399.72                           | -206.69    | 1,418.57             | 1,356.73              | 61.84                   | 22.939            |                    |         |
| 8,800.00                   | 8,657.44            | 8,731.58            | 8,710.33            | 31.93           | 30.60       | 95.11                 | -399.50                           | -186.68    | 1,420.13             | 1,357.93              | 62.20                   | 22.831            |                    |         |
| 8,850.00                   | 8,692.08            | 8,795.00            | 8,767.51            | 32.06           | 30.79       | 95.84                 | -399.20                           | -159.33    | 1,421.81             | 1,359.25              | 62.56                   | 22.726            |                    |         |
| 8,900.00                   | 8,723.44            | 8,861.70            | 8,824.01            | 32.19           | 30.98       | 96.54                 | -398.81                           | -123.93    | 1,423.53             | 1,360.61              | 62.92                   | 22.624            |                    |         |
| 8,950.00                   | 8,751.29            | 8,931.81            | 8,878.52            | 32.34           | 31.18       | 97.21                 | -398.33                           | -79.92     | 1,425.23             | 1,361.94              | 63.28                   | 22.521            |                    |         |
| 9,000.00                   | 8,775.42            | 9,005.32            | 8,929.47            | 32.50           | 31.39       | 97.81                 | -397.75                           | -27.00     | 1,426.80             | 1,363.14              | 63.66                   | 22.413            |                    |         |
| 9,050.00                   | 8,795.64            | 9,082.06            | 8,974.97            | 32.67           | 31.63       | 98.34                 | -397.07                           | 34.73      | 1,428.16             | 1,364.09              | 64.07                   | 22.291            |                    |         |
| 9,100.00                   | 8,811.80            | 9,161.66            | 9,013.01            | 32.87           | 31.92       | 98.77                 | -396.30                           | 104.57     | 1,429.21             | 1,364.68              | 64.53                   | 22.149            |                    |         |
| 9,150.00                   | 8,823.77            | 9,243.53            | 9,041.66            | 33.10           | 32.26       | 99.09                 | -395.46                           | 181.18     | 1,429.88             | 1,364.82              | 65.07                   | 21.976            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 623H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Site Error:</b> | 0.00 ft |
|-----------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 0-MWD+IFR1                                                                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                           | Warning |
| Measured Depth (ft)                                                                                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor         |         |
| 9,200.00                                                                                                  | 8,831.47            | 9,326.85            | 9,059.31            | 33.34           | 32.67       | 99.26                 | -394.56                           | 262.53     | 1,430.11             | 1,364.41              | 65.70                   | 21.769                    |         |
| 9,250.00                                                                                                  | 8,834.84            | 9,409.45            | 9,065.00            | 33.60           | 33.11       | 99.29                 | -393.65                           | 344.86     | 1,429.87             | 1,363.46              | 66.41                   | 21.532                    |         |
| 9,263.62                                                                                                  | 8,835.00            | 9,423.07            | 9,065.00            | 33.67           | 33.20       | 99.29                 | -393.50                           | 358.48     | 1,429.77             | 1,363.20              | 66.57                   | 21.478                    |         |
| 9,300.00                                                                                                  | 8,835.00            | 9,459.45            | 9,065.00            | 33.88           | 33.42       | 99.29                 | -393.10                           | 394.86     | 1,429.59             | 1,362.58              | 67.01                   | 21.334                    |         |
| 9,400.00                                                                                                  | 8,835.00            | 9,559.45            | 9,065.00            | 34.53           | 34.11       | 99.30                 | -392.00                           | 494.85     | 1,429.09             | 1,360.73              | 68.36                   | 20.904                    |         |
| 9,500.00                                                                                                  | 8,835.00            | 9,659.45            | 9,065.00            | 35.30           | 34.90       | 99.30                 | -390.90                           | 594.84     | 1,428.59             | 1,358.67              | 69.92                   | 20.431                    |         |
| 9,600.00                                                                                                  | 8,835.00            | 9,759.45            | 9,065.00            | 36.17           | 35.80       | 99.30                 | -389.80                           | 694.83     | 1,428.10             | 1,356.42              | 71.68                   | 19.923                    |         |
| 9,700.00                                                                                                  | 8,835.00            | 9,859.45            | 9,065.00            | 37.13           | 36.78       | 99.31                 | -388.70                           | 794.83     | 1,427.60             | 1,353.98              | 73.62                   | 19.393                    |         |
| 9,800.00                                                                                                  | 8,835.00            | 9,959.45            | 9,065.00            | 38.18           | 37.85       | 99.31                 | -387.60                           | 894.82     | 1,427.10             | 1,351.38              | 75.72                   | 18.848                    |         |
| 9,900.00                                                                                                  | 8,835.00            | 10,059.45           | 9,065.00            | 39.31           | 39.00       | 99.31                 | -386.50                           | 994.81     | 1,426.60             | 1,348.63              | 77.97                   | 18.296                    |         |
| 10,000.00                                                                                                 | 8,835.00            | 10,159.44           | 9,065.00            | 40.51           | 40.22       | 99.32                 | -385.40                           | 1,094.80   | 1,426.11             | 1,345.73              | 80.37                   | 17.744                    |         |
| 10,100.00                                                                                                 | 8,835.00            | 10,259.44           | 9,065.00            | 41.78           | 41.50       | 99.32                 | -384.30                           | 1,194.80   | 1,425.61             | 1,342.71              | 82.90                   | 17.197                    |         |
| 10,200.00                                                                                                 | 8,835.00            | 10,359.44           | 9,065.00            | 43.10           | 42.85       | 99.32                 | -383.20                           | 1,294.79   | 1,425.11             | 1,339.57              | 85.54                   | 16.660                    |         |
| 10,300.00                                                                                                 | 8,835.00            | 10,459.44           | 9,065.00            | 44.49           | 44.24       | 99.33                 | -382.10                           | 1,394.78   | 1,424.61             | 1,336.32              | 88.29                   | 16.136                    |         |
| 10,400.00                                                                                                 | 8,835.00            | 10,559.44           | 9,065.00            | 45.92           | 45.69       | 99.33                 | -381.00                           | 1,494.77   | 1,424.11             | 1,332.98              | 91.13                   | 15.627                    |         |
| 10,500.00                                                                                                 | 8,835.00            | 10,659.44           | 9,065.00            | 47.39           | 47.18       | 99.33                 | -379.90                           | 1,594.77   | 1,423.62             | 1,329.55              | 94.07                   | 15.134                    |         |
| 10,600.00                                                                                                 | 8,835.00            | 10,759.44           | 9,065.00            | 48.91           | 48.71       | 99.34                 | -378.80                           | 1,694.76   | 1,423.12             | 1,326.04              | 97.08                   | 14.659                    |         |
| 10,700.00                                                                                                 | 8,835.00            | 10,859.43           | 9,065.00            | 50.47           | 50.28       | 99.34                 | -377.70                           | 1,794.75   | 1,422.62             | 1,322.45              | 100.17                  | 14.203                    |         |
| 10,800.00                                                                                                 | 8,835.00            | 10,959.43           | 9,065.00            | 52.06           | 51.88       | 99.34                 | -376.60                           | 1,894.75   | 1,422.12             | 1,318.80              | 103.32                  | 13.764                    |         |
| 10,900.00                                                                                                 | 8,835.00            | 11,059.43           | 9,065.00            | 53.68           | 53.51       | 99.35                 | -375.50                           | 1,994.74   | 1,421.62             | 1,315.09              | 106.53                  | 13.345                    |         |
| 11,000.00                                                                                                 | 8,835.00            | 11,159.43           | 9,065.00            | 55.32           | 55.17       | 99.35                 | -374.40                           | 2,094.73   | 1,421.13             | 1,311.33              | 109.80                  | 12.943                    |         |
| 11,100.00                                                                                                 | 8,835.00            | 11,259.43           | 9,065.00            | 57.00           | 56.86       | 99.35                 | -373.30                           | 2,194.72   | 1,420.63             | 1,307.51              | 113.12                  | 12.559                    |         |
| 11,200.00                                                                                                 | 8,835.00            | 11,359.43           | 9,065.00            | 58.70           | 58.56       | 99.36                 | -372.19                           | 2,294.72   | 1,420.13             | 1,303.65              | 116.48                  | 12.192                    |         |
| 11,300.00                                                                                                 | 8,835.00            | 11,459.43           | 9,065.00            | 60.41           | 60.29       | 99.36                 | -371.09                           | 2,394.71   | 1,419.63             | 1,299.74              | 119.89                  | 11.841                    |         |
| 11,400.00                                                                                                 | 8,835.00            | 11,559.43           | 9,065.00            | 62.15           | 62.04       | 99.36                 | -369.99                           | 2,494.70   | 1,419.13             | 1,295.80              | 123.33                  | 11.506                    |         |
| 11,500.00                                                                                                 | 8,835.00            | 11,659.42           | 9,065.00            | 63.91           | 63.80       | 99.37                 | -368.89                           | 2,594.69   | 1,418.64             | 1,291.82              | 126.81                  | 11.187                    |         |
| 11,600.00                                                                                                 | 8,835.00            | 11,759.42           | 9,065.00            | 65.69           | 65.59       | 99.37                 | -367.79                           | 2,694.69   | 1,418.14             | 1,287.81              | 130.33                  | 10.881                    |         |
| 11,700.00                                                                                                 | 8,835.00            | 11,859.42           | 9,065.00            | 67.47           | 67.38       | 99.37                 | -366.69                           | 2,794.68   | 1,417.64             | 1,283.77              | 133.87                  | 10.590                    |         |
| 11,800.00                                                                                                 | 8,835.00            | 11,959.42           | 9,065.00            | 69.28           | 69.19       | 99.38                 | -365.59                           | 2,894.67   | 1,417.14             | 1,279.70              | 137.44                  | 10.311                    |         |
| 11,900.00                                                                                                 | 8,835.00            | 12,059.42           | 9,065.00            | 71.09           | 71.01       | 99.38                 | -364.49                           | 2,994.66   | 1,416.64             | 1,275.61              | 141.04                  | 10.044                    |         |
| 12,000.00                                                                                                 | 8,835.00            | 12,159.42           | 9,065.00            | 72.92           | 72.85       | 99.38                 | -363.39                           | 3,094.66   | 1,416.15             | 1,271.49              | 144.66                  | 9.790                     |         |
| 12,100.00                                                                                                 | 8,835.00            | 12,259.42           | 9,065.00            | 74.76           | 74.70       | 99.39                 | -362.29                           | 3,194.65   | 1,415.65             | 1,267.35              | 148.30                  | 9.546                     |         |
| 12,200.00                                                                                                 | 8,835.00            | 12,359.42           | 9,065.00            | 76.61           | 76.55       | 99.39                 | -361.19                           | 3,294.64   | 1,415.15             | 1,263.19              | 151.96                  | 9.312                     |         |
| 12,300.00                                                                                                 | 8,835.00            | 12,459.41           | 9,065.00            | 78.47           | 78.42       | 99.39                 | -360.09                           | 3,394.64   | 1,414.65             | 1,259.01              | 155.64                  | 9.089                     |         |
| 12,400.00                                                                                                 | 8,835.00            | 12,559.41           | 9,065.00            | 80.34           | 80.29       | 99.40                 | -358.99                           | 3,494.63   | 1,414.16             | 1,254.81              | 159.34                  | 8.875                     |         |
| 12,500.00                                                                                                 | 8,835.00            | 12,659.41           | 9,065.00            | 82.22           | 82.17       | 99.40                 | -357.89                           | 3,594.62   | 1,413.66             | 1,250.60              | 163.06                  | 8.670                     |         |
| 12,600.00                                                                                                 | 8,835.00            | 12,759.41           | 9,065.00            | 84.11           | 84.06       | 99.40                 | -356.79                           | 3,694.61   | 1,413.16             | 1,246.37              | 166.79                  | 8.473                     |         |
| 12,700.00                                                                                                 | 8,835.00            | 12,859.41           | 9,065.00            | 86.00           | 85.96       | 99.41                 | -355.69                           | 3,794.61   | 1,412.66             | 1,242.13              | 170.53                  | 8.284                     |         |
| 12,800.00                                                                                                 | 8,835.00            | 12,959.41           | 9,065.00            | 87.90           | 87.86       | 99.41                 | -354.59                           | 3,894.60   | 1,412.16             | 1,237.87              | 174.29                  | 8.102                     |         |
| 12,900.00                                                                                                 | 8,835.00            | 13,059.41           | 9,065.00            | 89.81           | 89.77       | 99.41                 | -353.49                           | 3,994.59   | 1,411.67             | 1,233.60              | 178.06                  | 7.928                     |         |
| 13,000.00                                                                                                 | 8,835.00            | 13,159.41           | 9,065.00            | 91.72           | 91.69       | 99.42                 | -352.39                           | 4,094.58   | 1,411.17             | 1,229.32              | 181.85                  | 7.760                     |         |
| 13,100.00                                                                                                 | 8,835.00            | 13,259.40           | 9,065.00            | 93.64           | 93.61       | 99.42                 | -351.28                           | 4,194.58   | 1,410.67             | 1,225.03              | 185.64                  | 7.599                     |         |
| 13,200.00                                                                                                 | 8,835.00            | 13,359.40           | 9,065.00            | 95.56           | 95.54       | 99.42                 | -350.18                           | 4,294.57   | 1,410.17             | 1,220.73              | 189.44                  | 7.444                     |         |
| 13,300.00                                                                                                 | 8,835.00            | 13,459.40           | 9,065.00            | 97.49           | 97.47       | 99.43                 | -349.08                           | 4,394.56   | 1,409.67             | 1,216.42              | 193.26                  | 7.294                     |         |
| 13,400.00                                                                                                 | 8,835.00            | 13,559.40           | 9,065.00            | 99.42           | 99.40       | 99.43                 | -347.98                           | 4,494.55   | 1,409.18             | 1,212.10              | 197.08                  | 7.150                     |         |
| 13,500.00                                                                                                 | 8,835.00            | 13,659.40           | 9,065.00            | 101.36          | 101.34      | 99.43                 | -346.88                           | 4,594.55   | 1,408.68             | 1,207.77              | 200.91                  | 7.011                     |         |
| 13,600.00                                                                                                 | 8,835.00            | 13,759.40           | 9,065.00            | 103.30          | 103.29      | 99.44                 | -345.78                           | 4,694.54   | 1,408.18             | 1,203.43              | 204.75                  | 6.878                     |         |
| 13,700.00                                                                                                 | 8,835.00            | 13,859.40           | 9,065.00            | 105.25          | 105.23      | 99.44                 | -344.68                           | 4,794.53   | 1,407.68             | 1,199.09              | 208.60                  | 6.748                     |         |
| 13,800.00                                                                                                 | 8,835.00            | 13,959.40           | 9,065.00            | 107.20          | 107.19      | 99.44                 | -343.58                           | 4,894.53   | 1,407.19             | 1,194.73              | 212.45                  | 6.624                     |         |
| 13,900.00                                                                                                 | 8,835.00            | 14,059.39           | 9,065.00            | 109.15          | 109.14      | 99.45                 | -342.48                           | 4,994.52   | 1,406.69             | 1,190.37              | 216.31                  | 6.503                     |         |
| 14,000.00                                                                                                 | 8,835.00            | 14,159.39           | 9,065.00            | 111.10          | 111.10      | 99.45                 | -341.38                           | 5,094.51   | 1,406.19             | 1,186.01              | 220.18                  | 6.387                     |         |
| 14,100.00                                                                                                 | 8,835.00            | 14,259.39           | 9,065.00            | 113.06          | 113.06      | 99.45                 | -340.28                           | 5,194.50   | 1,405.69             | 1,181.64              | 224.06                  | 6.274                     |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 623H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Site Error:</b> | 0.00 ft |
|-----------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 0-MWD+IFR1                                                                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                           | Warning |
| Measured Depth (ft)                                                                                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor         |         |
| 14,200.00                                                                                                 | 8,835.00            | 14,359.39           | 9,065.00            | 115.03          | 115.03      | 99.46                 | -339.18                           | 5,294.50   | 1,405.19             | 1,177.26              | 227.94                  | 6.165                     |         |
| 14,300.00                                                                                                 | 8,835.00            | 14,459.39           | 9,065.00            | 116.99          | 116.99      | 99.46                 | -338.08                           | 5,394.49   | 1,404.70             | 1,172.88              | 231.82                  | 6.059                     |         |
| 14,400.00                                                                                                 | 8,835.00            | 14,559.39           | 9,065.00            | 118.96          | 118.96      | 99.46                 | -336.98                           | 5,494.48   | 1,404.20             | 1,168.49              | 235.71                  | 5.957                     |         |
| 14,500.00                                                                                                 | 8,835.00            | 14,659.39           | 9,065.00            | 120.93          | 120.93      | 99.47                 | -335.88                           | 5,594.47   | 1,403.70             | 1,164.09              | 239.61                  | 5.858                     |         |
| 14,600.00                                                                                                 | 8,835.00            | 14,759.39           | 9,065.00            | 122.90          | 122.91      | 99.47                 | -334.78                           | 5,694.47   | 1,403.20             | 1,159.70              | 243.51                  | 5.762                     |         |
| 14,700.00                                                                                                 | 8,835.00            | 14,859.38           | 9,065.00            | 124.88          | 124.89      | 99.47                 | -333.68                           | 5,794.46   | 1,402.71             | 1,155.29              | 247.41                  | 5.670                     |         |
| 14,800.00                                                                                                 | 8,835.00            | 14,959.38           | 9,065.00            | 126.86          | 126.86      | 99.48                 | -332.58                           | 5,894.45   | 1,402.21             | 1,150.89              | 251.32                  | 5.579                     |         |
| 14,900.00                                                                                                 | 8,835.00            | 15,059.38           | 9,065.00            | 128.84          | 128.85      | 99.48                 | -331.48                           | 5,994.44   | 1,401.71             | 1,146.48              | 255.24                  | 5.492                     |         |
| 15,000.00                                                                                                 | 8,835.00            | 15,159.38           | 9,065.00            | 130.82          | 130.83      | 99.48                 | -330.38                           | 6,094.44   | 1,401.21             | 1,142.06              | 259.15                  | 5.407                     |         |
| 15,100.00                                                                                                 | 8,835.00            | 15,259.38           | 9,065.00            | 132.80          | 132.81      | 99.49                 | -329.27                           | 6,194.43   | 1,400.72             | 1,137.64              | 263.07                  | 5.324                     |         |
| 15,200.00                                                                                                 | 8,835.00            | 15,359.38           | 9,065.00            | 134.79          | 134.80      | 99.49                 | -328.17                           | 6,294.42   | 1,400.22             | 1,133.22              | 267.00                  | 5.244                     |         |
| 15,300.00                                                                                                 | 8,835.00            | 15,459.38           | 9,065.00            | 136.78          | 136.79      | 99.50                 | -327.07                           | 6,394.42   | 1,399.72             | 1,128.79              | 270.93                  | 5.166                     |         |
| 15,400.00                                                                                                 | 8,835.00            | 15,559.38           | 9,065.00            | 138.76          | 138.78      | 99.50                 | -325.97                           | 6,494.41   | 1,399.22             | 1,124.36              | 274.86                  | 5.091                     |         |
| 15,500.00                                                                                                 | 8,835.00            | 15,659.37           | 9,065.00            | 140.76          | 140.77      | 99.50                 | -324.87                           | 6,594.40   | 1,398.72             | 1,119.93              | 278.79                  | 5.017                     |         |
| 15,600.00                                                                                                 | 8,835.00            | 15,759.37           | 9,065.00            | 142.75          | 142.76      | 99.51                 | -323.77                           | 6,694.39   | 1,398.23             | 1,115.50              | 282.73                  | 4.945 Alert               |         |
| 15,700.00                                                                                                 | 8,835.00            | 15,859.37           | 9,065.00            | 144.74          | 144.76      | 99.51                 | -322.67                           | 6,794.39   | 1,397.73             | 1,111.06              | 286.67                  | 4.876 Alert               |         |
| 15,800.00                                                                                                 | 8,835.00            | 15,959.37           | 9,065.00            | 146.74          | 146.75      | 99.51                 | -321.57                           | 6,894.38   | 1,397.23             | 1,106.62              | 290.61                  | 4.808 Alert               |         |
| 15,900.00                                                                                                 | 8,835.00            | 16,059.37           | 9,065.00            | 148.73          | 148.75      | 99.52                 | -320.47                           | 6,994.37   | 1,396.73             | 1,102.17              | 294.56                  | 4.742 Alert               |         |
| 16,000.00                                                                                                 | 8,835.00            | 16,159.37           | 9,065.00            | 150.73          | 150.75      | 99.52                 | -319.37                           | 7,094.36   | 1,396.24             | 1,097.73              | 298.51                  | 4.677 Alert               |         |
| 16,100.00                                                                                                 | 8,835.00            | 16,259.37           | 9,065.00            | 152.73          | 152.75      | 99.52                 | -318.27                           | 7,194.36   | 1,395.74             | 1,093.28              | 302.46                  | 4.615 Alert               |         |
| 16,200.00                                                                                                 | 8,835.00            | 16,359.36           | 9,065.00            | 154.73          | 154.75      | 99.53                 | -317.17                           | 7,294.35   | 1,395.24             | 1,088.83              | 306.41                  | 4.553 Alert               |         |
| 16,300.00                                                                                                 | 8,835.00            | 16,459.36           | 9,065.00            | 156.73          | 156.75      | 99.53                 | -316.07                           | 7,394.34   | 1,394.74             | 1,084.38              | 310.37                  | 4.494 Alert               |         |
| 16,400.00                                                                                                 | 8,835.00            | 16,559.36           | 9,065.00            | 158.74          | 158.76      | 99.53                 | -314.97                           | 7,494.33   | 1,394.25             | 1,079.92              | 314.32                  | 4.436 Alert               |         |
| 16,500.00                                                                                                 | 8,835.00            | 16,659.36           | 9,065.00            | 160.74          | 160.76      | 99.54                 | -313.87                           | 7,594.33   | 1,393.75             | 1,075.46              | 318.28                  | 4.379 Alert               |         |
| 16,600.00                                                                                                 | 8,835.00            | 16,759.36           | 9,065.00            | 162.74          | 162.77      | 99.54                 | -312.77                           | 7,694.32   | 1,393.25             | 1,071.00              | 322.25                  | 4.324 Alert               |         |
| 16,700.00                                                                                                 | 8,835.00            | 16,859.36           | 9,065.00            | 164.75          | 164.77      | 99.54                 | -311.67                           | 7,794.31   | 1,392.75             | 1,066.54              | 326.21                  | 4.270 Alert               |         |
| 16,800.00                                                                                                 | 8,835.00            | 16,959.36           | 9,065.00            | 166.76          | 166.78      | 99.55                 | -310.57                           | 7,894.31   | 1,392.25             | 1,062.08              | 330.17                  | 4.217 Alert               |         |
| 16,900.00                                                                                                 | 8,835.00            | 17,059.36           | 9,065.00            | 168.77          | 168.79      | 99.55                 | -309.47                           | 7,994.30   | 1,391.76             | 1,057.62              | 334.14                  | 4.165 Alert               |         |
| 17,000.00                                                                                                 | 8,835.00            | 17,159.35           | 9,065.00            | 170.77          | 170.80      | 99.55                 | -308.36                           | 8,094.29   | 1,391.26             | 1,053.15              | 338.11                  | 4.115 Alert               |         |
| 17,100.00                                                                                                 | 8,835.00            | 17,259.35           | 9,065.00            | 172.78          | 172.81      | 99.56                 | -307.26                           | 8,194.28   | 1,390.76             | 1,048.68              | 342.08                  | 4.066 Alert               |         |
| 17,200.00                                                                                                 | 8,835.00            | 17,359.35           | 9,065.00            | 174.79          | 174.82      | 99.56                 | -306.16                           | 8,294.28   | 1,390.26             | 1,044.21              | 346.05                  | 4.017 Alert               |         |
| 17,300.00                                                                                                 | 8,835.00            | 17,459.35           | 9,065.00            | 176.81          | 176.83      | 99.56                 | -305.06                           | 8,394.27   | 1,389.77             | 1,039.74              | 350.03                  | 3.970 Alert               |         |
| 17,400.00                                                                                                 | 8,835.00            | 17,559.35           | 9,065.00            | 178.82          | 178.84      | 99.57                 | -303.96                           | 8,494.26   | 1,389.27             | 1,035.27              | 354.00                  | 3.924 Alert               |         |
| 17,500.00                                                                                                 | 8,835.00            | 17,659.35           | 9,065.00            | 180.83          | 180.85      | 99.57                 | -302.86                           | 8,594.25   | 1,388.77             | 1,030.79              | 357.98                  | 3.879 Alert               |         |
| 17,600.00                                                                                                 | 8,835.00            | 17,759.35           | 9,065.00            | 182.84          | 182.87      | 99.57                 | -301.76                           | 8,694.25   | 1,388.27             | 1,026.32              | 361.96                  | 3.835 Alert               |         |
| 17,700.00                                                                                                 | 8,835.00            | 17,859.35           | 9,065.00            | 184.86          | 184.88      | 99.58                 | -300.66                           | 8,794.24   | 1,387.78             | 1,021.84              | 365.94                  | 3.792 Alert               |         |
| 17,800.00                                                                                                 | 8,835.00            | 17,959.34           | 9,065.00            | 186.87          | 186.90      | 99.58                 | -299.56                           | 8,894.23   | 1,387.28             | 1,017.36              | 369.92                  | 3.750 Alert               |         |
| 17,900.00                                                                                                 | 8,835.00            | 18,059.34           | 9,065.00            | 188.89          | 188.91      | 99.58                 | -298.46                           | 8,994.23   | 1,386.78             | 1,012.88              | 373.90                  | 3.709 Alert               |         |
| 18,000.00                                                                                                 | 8,835.00            | 18,159.34           | 9,065.00            | 190.91          | 190.93      | 99.59                 | -297.36                           | 9,094.22   | 1,386.28             | 1,008.40              | 377.88                  | 3.669 Alert               |         |
| 18,100.00                                                                                                 | 8,835.00            | 18,259.34           | 9,065.00            | 192.92          | 192.95      | 99.59                 | -296.26                           | 9,194.21   | 1,385.79             | 1,003.92              | 381.86                  | 3.629 Alert               |         |
| 18,200.00                                                                                                 | 8,835.00            | 18,359.34           | 9,065.00            | 194.94          | 194.96      | 99.59                 | -295.16                           | 9,294.20   | 1,385.29             | 999.44                | 385.85                  | 3.590 Alert               |         |
| 18,300.00                                                                                                 | 8,835.00            | 18,459.34           | 9,065.00            | 196.96          | 196.98      | 99.60                 | -294.06                           | 9,394.20   | 1,384.79             | 994.95                | 389.84                  | 3.552 Alert               |         |
| 18,400.00                                                                                                 | 8,835.00            | 18,559.34           | 9,065.00            | 198.98          | 199.00      | 99.60                 | -292.96                           | 9,494.19   | 1,384.29             | 990.47                | 393.82                  | 3.515 Alert               |         |
| 18,500.00                                                                                                 | 8,835.00            | 18,659.34           | 9,065.00            | 201.00          | 201.02      | 99.61                 | -291.86                           | 9,594.18   | 1,383.80             | 985.98                | 397.81                  | 3.479 Alert               |         |
| 18,600.00                                                                                                 | 8,835.00            | 18,759.33           | 9,065.00            | 203.02          | 203.04      | 99.61                 | -290.76                           | 9,694.17   | 1,383.30             | 981.50                | 401.80                  | 3.443 Alert               |         |
| 18,700.00                                                                                                 | 8,835.00            | 18,859.33           | 9,065.00            | 205.04          | 205.06      | 99.61                 | -289.66                           | 9,794.17   | 1,382.80             | 977.01                | 405.79                  | 3.408 Alert               |         |
| 18,800.00                                                                                                 | 8,835.00            | 18,959.33           | 9,065.00            | 207.06          | 207.08      | 99.62                 | -288.56                           | 9,894.16   | 1,382.30             | 972.52                | 409.78                  | 3.373 Alert               |         |
| 18,900.00                                                                                                 | 8,835.00            | 19,059.33           | 9,065.00            | 209.08          | 209.10      | 99.62                 | -287.46                           | 9,994.15   | 1,381.81             | 968.03                | 413.77                  | 3.340 Alert               |         |
| 19,000.00                                                                                                 | 8,835.00            | 19,159.33           | 9,065.00            | 211.10          | 211.12      | 99.62                 | -286.35                           | 10,094.14  | 1,381.31             | 963.54                | 417.77                  | 3.306 Alert               |         |
| 19,100.00                                                                                                 | 8,835.00            | 19,259.33           | 9,065.00            | 213.12          | 213.15      | 99.63                 | -285.25                           | 10,194.14  | 1,380.81             | 959.05                | 421.76                  | 3.274 Alert               |         |
| 19,200.00                                                                                                 | 8,835.00            | 19,359.33           | 9,065.00            | 215.15          | 215.17      | 99.63                 | -284.15                           | 10,294.13  | 1,380.31             | 954.56                | 425.76                  | 3.242 Alert               |         |
| 19,302.28                                                                                                 | 8,835.00            | 19,461.61           | 9,065.00            | 217.22          | 217.24      | 99.63                 | -283.03                           | 10,396.40  | 1,379.80             | 949.96                | 429.84                  | 3.210 Alert               |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 623H - Wellbore #1 - Permit Plan 1 |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Site Error:</b> | 0.00 ft   |
|-----------------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|-----------------------------------------|---------------|-------------------------|--------------------------|----------------------------|---------------------------|-----------|
| Survey Program: 0-MWD+IFR1                                                                                |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Well Error:</b> | 0.50 ft   |
| Reference                                                                                                 |                        | Offset                 |                        | Semi Major Axis   |                |                          | Distance                                |               |                         |                          |                            |                           |           |
| Measured Depth<br>(ft)                                                                                    | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between Centres<br>(ft) | Between Ellipses<br>(ft) | Minimum Separation<br>(ft) | Separation Factor         | Warning   |
| 19,308.27                                                                                                 | 8,835.00               | 19,456.84              | 9,065.00               | 217.34            | 217.14         | 99.63                    | -283.08                                 | 10,391.64     | 1,379.82                | 949.96                   | 429.86                     | 3.210                     | Alert, SF |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                        | 0.00                | 0.00                | 0.00                | 0.50            | 0.50        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.68             |                       |                         |                   |                    |         |
| 100.00                      | 100.00              | 50.20               | 50.20               | 0.52            | 0.78        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,376.01              | 1.30                    | 2,597.236         |                    |         |
| 200.00                      | 200.00              | 150.20              | 150.20              | 0.70            | 2.16        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,374.45              | 2.86                    | 1,180.686         |                    |         |
| 300.00                      | 300.00              | 250.20              | 250.20              | 0.99            | 3.63        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,372.69              | 4.62                    | 731.150           |                    |         |
| 400.00                      | 400.00              | 350.20              | 350.20              | 1.31            | 5.12        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,370.88              | 6.43                    | 525.371           |                    |         |
| 500.00                      | 500.00              | 450.20              | 450.20              | 1.65            | 6.61        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,369.05              | 8.26                    | 408.999           |                    |         |
| 600.00                      | 600.00              | 550.20              | 550.20              | 1.99            | 8.11        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,367.21              | 10.10                   | 334.516           |                    |         |
| 700.00                      | 700.00              | 650.20              | 650.20              | 2.34            | 9.60        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,365.37              | 11.94                   | 282.856           |                    |         |
| 800.00                      | 800.00              | 750.20              | 750.20              | 2.69            | 11.10       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,363.52              | 13.79                   | 244.960           |                    |         |
| 900.00                      | 900.00              | 850.20              | 850.20              | 3.04            | 12.59       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,361.67              | 15.64                   | 215.990           |                    |         |
| 1,000.00                    | 1,000.00            | 950.20              | 950.20              | 3.40            | 14.09       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,359.82              | 17.49                   | 193.132           |                    |         |
| 1,100.00                    | 1,100.00            | 1,050.20            | 1,050.20            | 3.75            | 15.59       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,357.97              | 19.34                   | 174.640           |                    |         |
| 1,200.00                    | 1,200.00            | 1,150.20            | 1,150.20            | 4.11            | 17.08       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,356.12              | 21.19                   | 159.373           |                    |         |
| 1,300.00                    | 1,300.00            | 1,250.20            | 1,250.20            | 4.46            | 18.58       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,354.27              | 23.04                   | 146.558           |                    |         |
| 1,400.00                    | 1,400.00            | 1,350.20            | 1,350.20            | 4.82            | 20.08       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,352.41              | 24.90                   | 135.647           |                    |         |
| 1,500.00                    | 1,500.00            | 1,450.20            | 1,450.20            | 5.18            | 21.57       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,350.56              | 26.75                   | 126.247           |                    |         |
| 1,600.00                    | 1,600.00            | 1,550.20            | 1,550.20            | 5.53            | 23.07       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,348.70              | 28.61                   | 118.064           |                    |         |
| 1,700.00                    | 1,700.00            | 1,650.20            | 1,650.20            | 5.89            | 24.57       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,346.85              | 30.46                   | 110.877           |                    |         |
| 1,800.00                    | 1,800.00            | 1,750.20            | 1,750.20            | 6.25            | 26.07       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,345.00              | 32.31                   | 104.513           |                    |         |
| 1,900.00                    | 1,900.00            | 1,850.20            | 1,850.20            | 6.61            | 27.56       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,343.14              | 34.17                   | 98.840            |                    |         |
| 2,000.00                    | 2,000.00            | 1,950.20            | 1,950.20            | 6.96            | 29.06       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,341.29              | 36.02                   | 93.751            |                    |         |
| 2,100.00                    | 2,099.99            | 2,050.19            | 2,050.19            | 7.32            | 30.56       | 127.48                | -1,411.08                         | 3,068.40   | 3,377.84             | 3,339.96              | 37.88                   | 89.175            |                    |         |
| 2,200.00                    | 2,199.96            | 2,150.16            | 2,150.16            | 7.68            | 32.06       | 127.51                | -1,411.08                         | 3,068.40   | 3,379.43             | 3,339.70              | 39.73                   | 85.055            |                    |         |
| 2,300.00                    | 2,299.86            | 2,250.06            | 2,250.06            | 8.04            | 33.55       | 127.54                | -1,411.08                         | 3,068.40   | 3,382.09             | 3,340.51              | 41.58                   | 81.331            |                    |         |
| 2,400.00                    | 2,399.68            | 2,349.88            | 2,349.88            | 8.39            | 35.05       | 127.60                | -1,411.08                         | 3,068.40   | 3,385.82             | 3,342.38              | 43.43                   | 77.952            |                    |         |
| 2,500.00                    | 2,499.37            | 2,449.57            | 2,449.57            | 8.75            | 36.54       | 127.66                | -1,411.08                         | 3,068.40   | 3,390.62             | 3,345.34              | 45.28                   | 74.876            |                    |         |
| 2,600.00                    | 2,598.90            | 2,549.10            | 2,549.10            | 9.11            | 38.03       | 127.74                | -1,411.08                         | 3,068.40   | 3,396.50             | 3,349.37              | 47.13                   | 72.068            |                    |         |
| 2,700.00                    | 2,698.26            | 2,648.46            | 2,648.46            | 9.46            | 39.52       | 127.84                | -1,411.08                         | 3,068.40   | 3,403.46             | 3,354.49              | 48.97                   | 69.497            |                    |         |
| 2,800.00                    | 2,797.40            | 2,747.60            | 2,747.60            | 9.82            | 41.00       | 127.95                | -1,411.08                         | 3,068.40   | 3,411.52             | 3,360.71              | 50.81                   | 67.139            |                    |         |
| 2,900.00                    | 2,896.30            | 2,846.50            | 2,846.50            | 10.18           | 42.48       | 128.07                | -1,411.08                         | 3,068.40   | 3,420.69             | 3,368.04              | 52.65                   | 64.971            |                    |         |
| 3,000.00                    | 2,994.93            | 2,945.13            | 2,945.13            | 10.54           | 43.96       | 128.20                | -1,411.08                         | 3,068.40   | 3,430.97             | 3,376.48              | 54.48                   | 62.973            |                    |         |
| 3,100.00                    | 3,093.26            | 3,043.46            | 3,043.46            | 10.90           | 45.43       | 128.35                | -1,411.08                         | 3,068.40   | 3,442.37             | 3,386.06              | 56.31                   | 61.130            |                    |         |
| 3,195.07                    | 3,186.42            | 3,136.62            | 3,136.62            | 11.24           | 46.83       | 128.50                | -1,411.08                         | 3,068.40   | 3,454.27             | 3,396.22              | 58.05                   | 59.507            |                    |         |
| 3,200.00                    | 3,191.25            | 3,141.45            | 3,141.45            | 11.26           | 46.90       | 128.51                | -1,411.08                         | 3,068.40   | 3,454.92             | 3,396.78              | 58.14                   | 59.425            |                    |         |
| 3,300.00                    | 3,289.08            | 3,239.28            | 3,239.28            | 11.62           | 48.37       | 128.78                | -1,411.08                         | 3,068.40   | 3,468.02             | 3,408.06              | 59.96                   | 57.836            |                    |         |
| 3,400.00                    | 3,386.91            | 3,337.11            | 3,337.11            | 11.98           | 49.83       | 129.04                | -1,411.08                         | 3,068.40   | 3,481.20             | 3,419.41              | 61.79                   | 56.341            |                    |         |
| 3,500.00                    | 3,484.74            | 3,434.94            | 3,434.94            | 12.35           | 51.30       | 129.30                | -1,411.08                         | 3,068.40   | 3,494.45             | 3,430.83              | 63.62                   | 54.931            |                    |         |
| 3,600.00                    | 3,582.58            | 3,532.78            | 3,532.78            | 12.72           | 52.76       | 129.56                | -1,411.08                         | 3,068.40   | 3,507.77             | 3,442.33              | 65.44                   | 53.599            |                    |         |
| 3,700.00                    | 3,680.41            | 3,630.61            | 3,630.61            | 13.09           | 54.23       | 129.81                | -1,411.08                         | 3,068.40   | 3,521.16             | 3,453.89              | 67.27                   | 52.340            |                    |         |
| 3,800.00                    | 3,778.24            | 3,728.44            | 3,728.44            | 13.46           | 55.69       | 130.07                | -1,411.08                         | 3,068.40   | 3,534.63             | 3,465.52              | 69.11                   | 51.148            |                    |         |
| 3,900.00                    | 3,876.08            | 3,826.28            | 3,826.28            | 13.83           | 57.16       | 130.32                | -1,411.08                         | 3,068.40   | 3,548.16             | 3,477.22              | 70.94                   | 50.018            |                    |         |
| 4,000.00                    | 3,973.91            | 3,924.11            | 3,924.11            | 14.21           | 58.62       | 130.57                | -1,411.08                         | 3,068.40   | 3,561.76             | 3,488.99              | 72.77                   | 48.945            |                    |         |
| 4,100.00                    | 4,071.74            | 4,021.94            | 4,021.94            | 14.58           | 60.09       | 130.82                | -1,411.08                         | 3,068.40   | 3,575.44             | 3,500.83              | 74.60                   | 47.925            |                    |         |
| 4,200.00                    | 4,169.57            | 4,119.77            | 4,119.77            | 14.96           | 61.55       | 131.07                | -1,411.08                         | 3,068.40   | 3,589.17             | 3,512.73              | 76.44                   | 46.954            |                    |         |
| 4,300.00                    | 4,267.41            | 4,217.61            | 4,217.61            | 15.33           | 63.02       | 131.31                | -1,411.08                         | 3,068.40   | 3,602.98             | 3,524.70              | 78.28                   | 46.030            |                    |         |
| 4,400.00                    | 4,365.24            | 4,315.44            | 4,315.44            | 15.71           | 64.48       | 131.56                | -1,411.08                         | 3,068.40   | 3,616.85             | 3,536.74              | 80.11                   | 45.148            |                    |         |
| 4,500.00                    | 4,463.07            | 4,413.27            | 4,413.27            | 16.09           | 65.95       | 131.80                | -1,411.08                         | 3,068.40   | 3,630.79             | 3,548.84              | 81.95                   | 44.306            |                    |         |
| 4,600.00                    | 4,560.90            | 4,511.10            | 4,511.10            | 16.47           | 67.41       | 132.04                | -1,411.08                         | 3,068.40   | 3,644.79             | 3,561.00              | 83.79                   | 43.501            |                    |         |
| 4,700.00                    | 4,658.74            | 4,608.94            | 4,608.94            | 16.85           | 68.88       | 132.27                | -1,411.08                         | 3,068.40   | 3,658.85             | 3,573.23              | 85.62                   | 42.732            |                    |         |
| 4,800.00                    | 4,756.57            | 4,706.77            | 4,706.77            | 17.23           | 70.34       | 132.51                | -1,411.08                         | 3,068.40   | 3,672.98             | 3,585.52              | 87.46                   | 41.995            |                    |         |
| 4,900.00                    | 4,854.40            | 4,804.60            | 4,804.60            | 17.61           | 71.81       | 132.75                | -1,411.08                         | 3,068.40   | 3,687.17             | 3,597.87              | 89.30                   | 41.289            |                    |         |
| 5,000.00                    | 4,952.23            | 4,902.43            | 4,902.43            | 17.99           | 73.27       | 132.98                | -1,411.08                         | 3,068.40   | 3,701.42             | 3,610.28              | 91.14                   | 40.612            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                    | 5,050.07            | 5,000.27            | 5,000.27            | 18.37           | 74.74       | 133.21                | -1,411.08                         | 3,068.40   | 3,715.73             | 3,622.75              | 92.98                   | 39.962            |                    |         |
| 5,200.00                    | 5,147.90            | 5,098.10            | 5,098.10            | 18.75           | 76.20       | 133.44                | -1,411.08                         | 3,068.40   | 3,730.10             | 3,635.28              | 94.82                   | 39.338            |                    |         |
| 5,300.00                    | 5,245.73            | 5,195.93            | 5,195.93            | 19.14           | 77.67       | 133.67                | -1,411.08                         | 3,068.40   | 3,744.53             | 3,647.87              | 96.66                   | 38.739            |                    |         |
| 5,400.00                    | 5,343.56            | 5,293.76            | 5,293.76            | 19.52           | 79.13       | 133.89                | -1,411.08                         | 3,068.40   | 3,759.02             | 3,660.52              | 98.50                   | 38.162            |                    |         |
| 5,500.00                    | 5,441.40            | 5,391.60            | 5,391.60            | 19.90           | 80.60       | 134.12                | -1,411.08                         | 3,068.40   | 3,773.57             | 3,673.22              | 100.34                  | 37.606            |                    |         |
| 5,600.00                    | 5,539.23            | 5,489.43            | 5,489.43            | 20.29           | 82.06       | 134.34                | -1,411.08                         | 3,068.40   | 3,788.17             | 3,685.99              | 102.19                  | 37.072            |                    |         |
| 5,700.00                    | 5,637.06            | 5,587.26            | 5,587.26            | 20.67           | 83.53       | 134.56                | -1,411.08                         | 3,068.40   | 3,802.83             | 3,698.81              | 104.03                  | 36.556            |                    |         |
| 5,800.00                    | 5,734.90            | 5,685.10            | 5,685.10            | 21.05           | 84.99       | 134.78                | -1,411.08                         | 3,068.40   | 3,817.55             | 3,711.68              | 105.87                  | 36.059            |                    |         |
| 5,900.00                    | 5,832.73            | 5,782.93            | 5,782.93            | 21.44           | 86.46       | 135.00                | -1,411.08                         | 3,068.40   | 3,832.32             | 3,724.61              | 107.71                  | 35.579            |                    |         |
| 6,000.00                    | 5,930.56            | 5,880.76            | 5,880.76            | 21.83           | 87.92       | 135.21                | -1,411.08                         | 3,068.40   | 3,847.15             | 3,737.60              | 109.55                  | 35.116            |                    |         |
| 6,100.00                    | 6,028.39            | 5,978.59            | 5,978.59            | 22.21           | 89.39       | 135.42                | -1,411.08                         | 3,068.40   | 3,862.03             | 3,750.64              | 111.40                  | 34.669            |                    |         |
| 6,200.00                    | 6,126.23            | 6,076.43            | 6,076.43            | 22.60           | 90.86       | 135.64                | -1,411.08                         | 3,068.40   | 3,876.97             | 3,763.73              | 113.24                  | 34.237            |                    |         |
| 6,300.00                    | 6,224.06            | 6,174.26            | 6,174.26            | 22.98           | 92.32       | 135.85                | -1,411.08                         | 3,068.40   | 3,891.96             | 3,776.87              | 115.08                  | 33.819            |                    |         |
| 6,400.00                    | 6,321.89            | 6,272.09            | 6,272.09            | 23.37           | 93.79       | 136.06                | -1,411.08                         | 3,068.40   | 3,907.00             | 3,790.07              | 116.93                  | 33.414            |                    |         |
| 6,500.00                    | 6,419.72            | 6,369.92            | 6,369.92            | 23.76           | 95.25       | 136.27                | -1,411.08                         | 3,068.40   | 3,922.09             | 3,803.32              | 118.77                  | 33.023            |                    |         |
| 6,600.00                    | 6,517.56            | 6,467.76            | 6,467.76            | 24.14           | 96.72       | 136.47                | -1,411.08                         | 3,068.40   | 3,937.23             | 3,816.62              | 120.61                  | 32.643            |                    |         |
| 6,700.00                    | 6,615.39            | 6,565.59            | 6,565.59            | 24.53           | 98.18       | 136.68                | -1,411.08                         | 3,068.40   | 3,952.43             | 3,829.97              | 122.46                  | 32.276            |                    |         |
| 6,800.00                    | 6,713.22            | 6,663.42            | 6,663.42            | 24.92           | 99.65       | 136.88                | -1,411.08                         | 3,068.40   | 3,967.67             | 3,843.37              | 124.30                  | 31.920            |                    |         |
| 6,900.00                    | 6,811.05            | 6,761.25            | 6,761.25            | 25.30           | 101.11      | 137.08                | -1,411.08                         | 3,068.40   | 3,982.96             | 3,856.82              | 126.15                  | 31.574            |                    |         |
| 7,000.00                    | 6,908.89            | 6,859.09            | 6,859.09            | 25.69           | 102.58      | 137.28                | -1,411.08                         | 3,068.40   | 3,998.30             | 3,870.31              | 127.99                  | 31.239            |                    |         |
| 7,100.00                    | 7,006.72            | 6,956.92            | 6,956.92            | 26.08           | 104.04      | 137.48                | -1,411.08                         | 3,068.40   | 4,013.69             | 3,883.86              | 129.83                  | 30.914            |                    |         |
| 7,200.00                    | 7,104.55            | 7,054.75            | 7,054.75            | 26.47           | 105.51      | 137.68                | -1,411.08                         | 3,068.40   | 4,029.13             | 3,897.45              | 131.68                  | 30.598            |                    |         |
| 7,216.87                    | 7,121.05            | 7,071.25            | 7,071.25            | 26.53           | 105.75      | 137.71                | -1,411.08                         | 3,068.40   | 4,031.74             | 3,899.75              | 131.99                  | 30.546            |                    |         |
| 7,300.00                    | 7,202.57            | 7,152.77            | 7,152.77            | 26.85           | 106.97      | 137.99                | -1,411.08                         | 3,068.40   | 4,043.95             | 3,910.42              | 133.52                  | 30.286            |                    |         |
| 7,400.00                    | 7,301.06            | 7,251.26            | 7,251.26            | 27.23           | 108.45      | 138.28                | -1,411.08                         | 3,068.40   | 4,056.91             | 3,921.53              | 135.37                  | 29.968            |                    |         |
| 7,500.00                    | 7,399.97            | 7,350.17            | 7,350.17            | 27.61           | 109.93      | 138.53                | -1,411.08                         | 3,068.40   | 4,067.96             | 3,930.73              | 137.23                  | 29.644            |                    |         |
| 7,600.00                    | 7,499.23            | 7,449.43            | 7,449.43            | 27.98           | 111.42      | 138.73                | -1,411.08                         | 3,068.40   | 4,077.07             | 3,937.99              | 139.08                  | 29.315            |                    |         |
| 7,700.00                    | 7,598.77            | 7,548.97            | 7,548.97            | 28.34           | 112.91      | 138.89                | -1,411.08                         | 3,068.40   | 4,084.24             | 3,943.31              | 140.93                  | 28.981            |                    |         |
| 7,800.00                    | 7,698.53            | 7,648.73            | 7,648.73            | 28.70           | 114.40      | 139.01                | -1,411.08                         | 3,068.40   | 4,089.44             | 3,946.66              | 142.78                  | 28.642            |                    |         |
| 7,900.00                    | 7,798.44            | 7,748.64            | 7,748.64            | 29.05           | 115.90      | 139.08                | -1,411.08                         | 3,068.40   | 4,092.68             | 3,948.05              | 144.63                  | 28.298            |                    |         |
| 8,000.00                    | 7,898.42            | 7,848.62            | 7,848.62            | 29.39           | 117.40      | 139.10                | -1,411.08                         | 3,068.40   | 4,093.93             | 3,947.47              | 146.47                  | 27.951            |                    |         |
| 8,013.58                    | 7,912.00            | 7,862.20            | 7,862.20            | 29.43           | 117.60      | 126.32                | -1,411.08                         | 3,068.40   | 4,093.95             | 3,947.23              | 146.72                  | 27.903            |                    |         |
| 8,100.00                    | 7,998.42            | 7,948.62            | 7,948.62            | 29.73           | 118.89      | 126.32                | -1,411.08                         | 3,068.40   | 4,093.95             | 3,945.64              | 148.31                  | 27.604            |                    |         |
| 8,200.00                    | 8,098.42            | 8,048.62            | 8,048.62            | 30.07           | 120.39      | 126.32                | -1,411.08                         | 3,068.40   | 4,093.95             | 3,943.81              | 150.15                  | 27.266            |                    |         |
| 8,300.00                    | 8,198.42            | 8,148.62            | 8,148.62            | 30.41           | 121.89      | 126.32                | -1,411.08                         | 3,068.40   | 4,093.95             | 3,941.97              | 151.99                  | 26.936            |                    |         |
| 8,363.62                    | 8,262.04            | 8,212.24            | 8,212.24            | 30.62           | 122.84      | 126.32                | -1,411.08                         | 3,068.40   | 4,093.95             | 3,940.80              | 153.16                  | 26.731            |                    |         |
| 8,400.00                    | 8,298.40            | 8,248.60            | 8,248.60            | 30.75           | 123.39      | 36.73                 | -1,411.08                         | 3,068.40   | 4,093.03             | 3,939.20              | 153.82                  | 26.609            |                    |         |
| 8,450.00                    | 8,348.10            | 8,298.30            | 8,298.30            | 30.91           | 124.13      | 37.03                 | -1,411.08                         | 3,068.40   | 4,088.74             | 3,934.02              | 154.72                  | 26.426            |                    |         |
| 8,500.00                    | 8,397.14            | 8,347.34            | 8,347.34            | 31.07           | 124.87      | 37.59                 | -1,411.08                         | 3,068.40   | 4,081.00             | 3,925.40              | 155.61                  | 26.226            |                    |         |
| 8,550.00                    | 8,445.15            | 8,395.35            | 8,395.35            | 31.23           | 125.58      | 38.41                 | -1,411.08                         | 3,068.40   | 4,069.89             | 3,913.42              | 156.47                  | 26.011            |                    |         |
| 8,600.00                    | 8,491.77            | 8,441.97            | 8,441.97            | 31.38           | 126.28      | 39.51                 | -1,411.08                         | 3,068.40   | 4,055.49             | 3,898.19              | 157.30                  | 25.781            |                    |         |
| 8,650.00                    | 8,536.65            | 8,486.85            | 8,486.85            | 31.52           | 126.95      | 40.92                 | -1,411.08                         | 3,068.40   | 4,037.94             | 3,879.84              | 158.10                  | 25.540            |                    |         |
| 8,700.00                    | 8,579.43            | 8,529.63            | 8,529.63            | 31.66           | 127.60      | 42.65                 | -1,411.08                         | 3,068.40   | 4,017.40             | 3,858.54              | 158.86                  | 25.289            |                    |         |
| 8,750.00                    | 8,619.80            | 8,570.00            | 8,570.00            | 31.80           | 128.20      | 44.74                 | -1,411.08                         | 3,068.40   | 3,994.05             | 3,834.48              | 159.57                  | 25.029            |                    |         |
| 8,800.00                    | 8,657.44            | 8,607.64            | 8,607.64            | 31.93           | 128.76      | 47.22                 | -1,411.08                         | 3,068.40   | 3,968.10             | 3,807.86              | 160.24                  | 24.763            |                    |         |
| 8,850.00                    | 8,692.08            | 8,642.28            | 8,642.28            | 32.06           | 129.28      | 50.13                 | -1,411.08                         | 3,068.40   | 3,939.77             | 3,778.92              | 160.86                  | 24.492            |                    |         |
| 8,900.00                    | 8,723.44            | 8,673.64            | 8,673.64            | 32.19           | 129.75      | 53.50                 | -1,411.08                         | 3,068.40   | 3,909.33             | 3,747.91              | 161.42                  | 24.218            |                    |         |
| 8,950.00                    | 8,751.29            | 8,701.49            | 8,701.49            | 32.34           | 130.17      | 57.36                 | -1,411.08                         | 3,068.40   | 3,877.03             | 3,715.09              | 161.93                  | 23.942            |                    |         |
| 9,000.00                    | 8,775.42            | 8,725.62            | 8,725.62            | 32.50           | 130.53      | 61.69                 | -1,411.08                         | 3,068.40   | 3,843.15             | 3,680.76              | 162.39                  | 23.666            |                    |         |
| 9,050.00                    | 8,795.64            | 8,745.84            | 8,745.84            | 32.67           | 130.83      | 66.49                 | -1,411.08                         | 3,068.40   | 3,807.99             | 3,645.19              | 162.80                  | 23.391            |                    |         |
| 9,100.00                    | 8,811.80            | 8,762.00            | 8,762.00            | 32.87           | 131.08      | 71.69                 | -1,411.08                         | 3,068.40   | 3,771.85             | 3,608.69              | 163.15                  | 23.119            |                    |         |
| 9,150.00                    | 8,823.77            | 8,773.97            | 8,773.97            | 33.10           | 131.25      | 77.18                 | -1,411.08                         | 3,068.40   | 3,735.02             | 3,571.57              | 163.45                  | 22.850            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lonetree 14 State Com #001 - Wellbore #1 - Wellbore #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Site Error:</b> | 0.00 ft |
|------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 10-INC-ONLY                                                                    |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                      |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                           | Warning |
| Measured Depth (ft)                                                                            | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor         |         |
| 9,200.00                                                                                       | 8,831.47            | 8,781.67            | 8,781.67            | 33.34           | 131.37      | 82.83                 | -1,411.08                         | 3,068.40   | 3,697.83             | 3,534.12              | 163.71                  | 22.588                    |         |
| 9,250.00                                                                                       | 8,834.84            | 8,785.04            | 8,785.04            | 33.60           | 131.42      | 88.48                 | -1,411.08                         | 3,068.40   | 3,660.56             | 3,496.65              | 163.91                  | 22.333                    |         |
| 9,263.62                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 33.67           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,650.43             | 3,486.48              | 163.95                  | 22.265                    |         |
| 9,300.00                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 33.88           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,623.50             | 3,459.42              | 164.08                  | 22.084                    |         |
| 9,400.00                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 34.53           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,550.33             | 3,385.86              | 164.47                  | 21.586                    |         |
| 9,500.00                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 35.30           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,478.49             | 3,313.54              | 164.95                  | 21.088                    |         |
| 9,600.00                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 36.17           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,408.08             | 3,242.55              | 165.52                  | 20.590                    |         |
| 9,700.00                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 37.13           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,339.17             | 3,172.98              | 166.19                  | 20.092                    |         |
| 9,800.00                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 38.18           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,271.88             | 3,104.91              | 166.96                  | 19.597                    |         |
| 9,900.00                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 39.31           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,206.29             | 3,038.45              | 167.84                  | 19.104                    |         |
| 10,000.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 40.51           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,142.51             | 2,973.69              | 168.82                  | 18.615                    |         |
| 10,100.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 41.78           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,080.66             | 2,910.75              | 169.91                  | 18.131                    |         |
| 10,200.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 43.10           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,020.85             | 2,849.74              | 171.11                  | 17.655                    |         |
| 10,300.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 44.49           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,963.21             | 2,790.79              | 172.42                  | 17.186                    |         |
| 10,400.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 45.92           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,907.87             | 2,734.04              | 173.83                  | 16.728                    |         |
| 10,500.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 47.39           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,854.96             | 2,679.61              | 175.35                  | 16.281                    |         |
| 10,600.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 48.91           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,804.62             | 2,627.65              | 176.97                  | 15.848                    |         |
| 10,700.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 50.47           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,756.99             | 2,578.30              | 178.68                  | 15.429                    |         |
| 10,800.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 52.06           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,712.21             | 2,531.73              | 180.48                  | 15.028                    |         |
| 10,900.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 53.68           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,670.42             | 2,488.07              | 182.35                  | 14.644                    |         |
| 11,000.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 55.32           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,631.78             | 2,447.48              | 184.29                  | 14.280                    |         |
| 11,100.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 57.00           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,596.41             | 2,410.12              | 186.29                  | 13.938                    |         |
| 11,200.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 58.70           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,564.46             | 2,376.13              | 188.33                  | 13.617                    |         |
| 11,300.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 60.41           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,536.04             | 2,345.65              | 190.39                  | 13.320                    |         |
| 11,400.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 62.15           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,511.30             | 2,318.83              | 192.47                  | 13.048                    |         |
| 11,500.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 63.91           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,490.32             | 2,295.78              | 194.54                  | 12.801                    |         |
| 11,600.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 65.69           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,473.21             | 2,276.62              | 196.60                  | 12.580                    |         |
| 11,700.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 67.47           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,460.06             | 2,261.44              | 198.62                  | 12.386                    |         |
| 11,800.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 69.28           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,450.91             | 2,250.32              | 200.59                  | 12.218                    |         |
| 11,900.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 71.09           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,445.82             | 2,243.32              | 202.50                  | 12.078                    |         |
| 11,974.55                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 72.46           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,444.69             | 2,240.81              | 203.88                  | 11.991 CC                 |         |
| 12,000.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 72.92           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,444.82             | 2,240.48              | 204.34                  | 11.965 ES                 |         |
| 12,100.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 74.76           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,447.90             | 2,241.83              | 206.08                  | 11.878                    |         |
| 12,200.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 76.61           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,455.06             | 2,247.34              | 207.72                  | 11.819                    |         |
| 12,300.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 78.47           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,466.26             | 2,257.00              | 209.26                  | 11.786                    |         |
| 12,400.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 80.34           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,481.43             | 2,270.75              | 210.68                  | 11.778 SF                 |         |
| 12,500.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 82.22           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,500.52             | 2,288.53              | 211.98                  | 11.796                    |         |
| 12,600.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 84.11           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,523.43             | 2,310.26              | 213.17                  | 11.838                    |         |
| 12,700.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 86.00           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,550.05             | 2,335.82              | 214.23                  | 11.903                    |         |
| 12,800.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 87.90           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,580.28             | 2,365.11              | 215.18                  | 11.991                    |         |
| 12,900.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 89.81           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,613.99             | 2,397.99              | 216.01                  | 12.102                    |         |
| 13,000.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 91.72           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,651.05             | 2,434.32              | 216.72                  | 12.232                    |         |
| 13,100.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 93.64           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,691.31             | 2,473.97              | 217.33                  | 12.383                    |         |
| 13,200.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 95.56           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,734.63             | 2,516.79              | 217.85                  | 12.553                    |         |
| 13,300.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 97.49           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,780.88             | 2,562.62              | 218.26                  | 12.741                    |         |
| 13,400.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 99.42           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,829.91             | 2,611.32              | 218.60                  | 12.946                    |         |
| 13,500.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 101.36          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,881.58             | 2,662.73              | 218.85                  | 13.167                    |         |
| 13,600.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 103.30          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,935.74             | 2,716.71              | 219.03                  | 13.403                    |         |
| 13,700.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 105.25          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,992.27             | 2,773.12              | 219.15                  | 13.654                    |         |
| 13,800.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 107.20          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,051.03             | 2,831.82              | 219.20                  | 13.919                    |         |
| 13,900.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 109.15          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,111.89             | 2,892.68              | 219.21                  | 14.196                    |         |
| 14,000.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 111.10          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,174.73             | 2,955.57              | 219.17                  | 14.485                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lonetree 14 State Com #001 - Wellbore #1 - Wellbore #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | <b>Offset Site Error:</b> | 0.00 ft |
|------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|---------------------------|---------|
| Survey Program: 10-INC-ONLY                                                                    |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                      |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning                   |         |
| Measured Depth (ft)                                                                            | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                           |         |
| 14,100.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 113.06          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,239.45             | 3,020.36              | 219.09                  | 14.786            |                           |         |
| 14,200.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 115.03          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,305.92             | 3,086.95              | 218.97                  | 15.098            |                           |         |
| 14,300.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 116.99          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,374.05             | 3,155.23              | 218.82                  | 15.419            |                           |         |
| 14,400.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 118.96          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,443.73             | 3,225.09              | 218.64                  | 15.750            |                           |         |
| 14,500.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 120.93          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,514.88             | 3,296.43              | 218.45                  | 16.090            |                           |         |
| 14,600.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 122.90          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,587.41             | 3,369.18              | 218.23                  | 16.439            |                           |         |
| 14,700.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 124.88          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,661.23             | 3,443.23              | 218.00                  | 16.795            |                           |         |
| 14,800.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 126.86          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,736.26             | 3,518.51              | 217.75                  | 17.158            |                           |         |
| 14,900.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 128.84          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,812.45             | 3,594.95              | 217.49                  | 17.529            |                           |         |
| 15,000.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 130.82          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,889.71             | 3,672.48              | 217.23                  | 17.906            |                           |         |
| 15,100.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 132.80          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,967.99             | 3,751.03              | 216.96                  | 18.289            |                           |         |
| 15,200.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 134.79          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,047.22             | 3,830.55              | 216.68                  | 18.678            |                           |         |
| 15,300.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 136.78          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,127.36             | 3,910.96              | 216.40                  | 19.073            |                           |         |
| 15,400.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 138.76          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,208.35             | 3,992.23              | 216.11                  | 19.473            |                           |         |
| 15,500.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 140.76          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,290.14             | 4,074.31              | 215.83                  | 19.877            |                           |         |
| 15,600.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 142.75          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,372.69             | 4,157.14              | 215.55                  | 20.286            |                           |         |
| 15,700.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 144.74          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,455.95             | 4,240.68              | 215.26                  | 20.700            |                           |         |
| 15,800.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 146.74          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,539.89             | 4,324.90              | 214.98                  | 21.117            |                           |         |
| 15,900.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 148.73          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,624.46             | 4,409.76              | 214.70                  | 21.539            |                           |         |
| 16,000.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 150.73          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,709.64             | 4,495.21              | 214.43                  | 21.964            |                           |         |
| 16,100.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 152.73          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,795.40             | 4,581.24              | 214.16                  | 22.392            |                           |         |
| 16,200.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 154.73          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,881.69             | 4,667.80              | 213.89                  | 22.824            |                           |         |
| 16,300.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 156.73          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,968.50             | 4,754.88              | 213.62                  | 23.258            |                           |         |
| 16,400.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 158.74          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,055.80             | 4,842.44              | 213.36                  | 23.696            |                           |         |
| 16,500.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 160.74          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,143.56             | 4,930.45              | 213.11                  | 24.136            |                           |         |
| 16,600.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 162.74          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,231.76             | 5,018.90              | 212.85                  | 24.579            |                           |         |
| 16,700.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 164.75          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,320.37             | 5,107.76              | 212.61                  | 25.024            |                           |         |
| 16,800.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 166.76          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,409.39             | 5,197.02              | 212.37                  | 25.472            |                           |         |
| 16,900.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 168.77          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,498.78             | 5,286.65              | 212.13                  | 25.922            |                           |         |
| 17,000.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 170.77          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,588.53             | 5,376.63              | 211.90                  | 26.374            |                           |         |
| 17,100.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 172.78          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,678.62             | 5,466.95              | 211.67                  | 26.827            |                           |         |
| 17,200.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 174.79          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,769.04             | 5,557.59              | 211.45                  | 27.283            |                           |         |
| 17,300.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 176.81          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,859.77             | 5,648.53              | 211.24                  | 27.740            |                           |         |
| 17,400.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 178.82          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,950.80             | 5,739.77              | 211.03                  | 28.199            |                           |         |
| 17,500.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 180.83          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,042.11             | 5,831.29              | 210.82                  | 28.660            |                           |         |
| 17,600.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 182.84          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,133.69             | 5,923.07              | 210.62                  | 29.122            |                           |         |
| 17,700.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 184.86          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,225.53             | 6,015.11              | 210.42                  | 29.586            |                           |         |
| 17,800.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 186.87          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,317.62             | 6,107.39              | 210.23                  | 30.051            |                           |         |
| 17,900.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 188.89          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,409.95             | 6,199.90              | 210.05                  | 30.517            |                           |         |
| 18,000.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 190.91          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,502.50             | 6,292.64              | 209.87                  | 30.984            |                           |         |
| 18,100.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 192.92          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,595.27             | 6,385.58              | 209.69                  | 31.452            |                           |         |
| 18,200.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 194.94          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,688.25             | 6,478.73              | 209.52                  | 31.922            |                           |         |
| 18,300.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 196.96          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,781.43             | 6,572.08              | 209.35                  | 32.392            |                           |         |
| 18,400.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 198.98          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,874.80             | 6,665.61              | 209.19                  | 32.864            |                           |         |
| 18,500.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 201.00          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,968.36             | 6,759.32              | 209.03                  | 33.336            |                           |         |
| 18,600.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 203.02          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 7,062.09             | 6,853.21              | 208.88                  | 33.810            |                           |         |
| 18,700.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 205.04          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 7,155.99             | 6,947.26              | 208.73                  | 34.284            |                           |         |
| 18,800.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 207.06          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 7,250.05             | 7,041.47              | 208.58                  | 34.758            |                           |         |
| 18,900.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 209.08          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 7,344.27             | 7,135.83              | 208.44                  | 35.234            |                           |         |
| 19,000.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 211.10          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 7,438.64             | 7,230.34              | 208.31                  | 35.710            |                           |         |
| 19,100.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 213.12          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 7,533.16             | 7,324.99              | 208.17                  | 36.187            |                           |         |
| 19,200.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 215.15          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 7,627.82             | 7,419.77              | 208.04                  | 36.664            |                           |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

|                             |                           |                           |                           |                   |                |                             |                                         |               |                            |                             |                               |                           |         |
|-----------------------------|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|---------|
| <b>Offset Design</b>        |                           |                           |                           |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 0.00 ft |
| Survey Program: 10-INC-ONLY |                           |                           |                           |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                   |                           | Offset                    |                           | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                           | Warning |
| Measured<br>Depth<br>(ft)   | Vertical<br>Depth<br>(ft) | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |         |
| 19,308.27                   | 8,835.00                  | 8,785.20                  | 8,785.20                  | 217.34            | 131.42         | 90.00                       | -1,411.08                               | 3,068.40      | 7,730.45                   | 7,522.54                    | 207.91                        | 37.182                    |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft   |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|-----------|
| Survey Program: 5-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 150.00 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |           |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |           |
| 0.00                       | 0.00                | 0.00                | 0.00                | 0.50            | 150.00      | 31.35                 | 2,234.63                          | 1,361.57   | 2,616.86             |                       |                         |                   |                    |           |
| 100.00                     | 100.00              | 77.20               | 77.20               | 0.52            | 150.00      | 31.35                 | 2,234.63                          | 1,361.57   | 2,616.76             | 2,466.24              | 150.52                  | 17.385            |                    |           |
| 200.00                     | 200.00              | 177.20              | 177.20              | 0.70            | 150.02      | 31.35                 | 2,234.63                          | 1,361.57   | 2,616.76             | 2,466.04              | 150.72                  | 17.361            |                    |           |
| 300.00                     | 300.00              | 277.20              | 277.20              | 0.99            | 150.05      | 31.35                 | 2,234.63                          | 1,361.57   | 2,616.76             | 2,465.72              | 151.04                  | 17.325            |                    |           |
| 400.00                     | 400.00              | 377.20              | 377.20              | 1.31            | 150.10      | 31.35                 | 2,234.63                          | 1,361.57   | 2,616.76             | 2,465.35              | 151.41                  | 17.283            |                    |           |
| 500.00                     | 500.00              | 477.20              | 477.20              | 1.65            | 150.16      | 31.35                 | 2,234.63                          | 1,361.57   | 2,616.76             | 2,464.95              | 151.81                  | 17.237            |                    |           |
| 600.00                     | 600.00              | 577.20              | 577.20              | 1.99            | 150.24      | 31.35                 | 2,234.63                          | 1,361.57   | 2,616.76             | 2,464.53              | 152.23                  | 17.190 CC, ES     |                    |           |
| 700.00                     | 700.00              | 563.00              | 562.89              | 2.34            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,619.26             | 2,466.83              | 152.42                  | 17.184 SF         |                    |           |
| 800.00                     | 800.00              | 563.00              | 562.89              | 2.69            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,625.52             | 2,473.11              | 152.41                  | 17.226            |                    |           |
| 900.00                     | 900.00              | 563.00              | 562.89              | 3.04            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,635.57             | 2,483.38              | 152.19                  | 17.317            |                    |           |
| 1,000.00                   | 1,000.00            | 563.00              | 562.89              | 3.40            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,649.36             | 2,497.60              | 151.76                  | 17.458            |                    |           |
| 1,100.00                   | 1,100.00            | 563.00              | 562.89              | 3.75            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,666.82             | 2,515.70              | 151.12                  | 17.647            |                    |           |
| 1,200.00                   | 1,200.00            | 563.00              | 562.89              | 4.11            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,687.90             | 2,537.60              | 150.30                  | 17.884            |                    |           |
| 1,300.00                   | 1,300.00            | 563.00              | 562.89              | 4.46            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,712.50             | 2,563.21              | 149.29                  | 18.169            |                    |           |
| 1,400.00                   | 1,400.00            | 563.00              | 562.89              | 4.82            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,740.54             | 2,592.41              | 148.12                  | 18.502            |                    |           |
| 1,500.00                   | 1,500.00            | 563.00              | 562.89              | 5.18            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,771.89             | 2,625.09              | 146.80                  | 18.882            |                    |           |
| 1,600.00                   | 1,600.00            | 563.00              | 562.89              | 5.53            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,806.47             | 2,661.12              | 145.34                  | 19.309            |                    |           |
| 1,700.00                   | 1,700.00            | 563.00              | 562.89              | 5.89            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,844.14             | 2,700.37              | 143.77                  | 19.783            |                    |           |
| 1,800.00                   | 1,800.00            | 563.00              | 562.89              | 6.25            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,884.79             | 2,742.70              | 142.09                  | 20.303            |                    |           |
| 1,900.00                   | 1,900.00            | 563.00              | 562.89              | 6.61            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,928.28             | 2,787.96              | 140.32                  | 20.868            |                    |           |
| 2,000.00                   | 2,000.00            | 563.00              | 562.89              | 6.96            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,974.51             | 2,836.03              | 138.48                  | 21.479            |                    |           |
| 2,100.00                   | 2,099.99            | 563.00              | 562.89              | 7.32            | 150.23      | 43.75                 | 2,234.63                          | 1,361.57   | 3,022.79             | 2,886.22              | 136.58                  | 22.132            |                    |           |
| 2,200.00                   | 2,199.96            | 563.00              | 562.89              | 7.68            | 150.23      | 43.36                 | 2,234.63                          | 1,361.57   | 3,072.49             | 2,937.89              | 134.61                  | 22.826            |                    |           |
| 2,300.00                   | 2,299.86            | 563.00              | 562.89              | 8.04            | 150.23      | 42.95                 | 2,234.63                          | 1,361.57   | 3,123.52             | 2,990.94              | 132.58                  | 23.559            |                    |           |
| 2,400.00                   | 2,399.68            | 563.00              | 562.89              | 8.39            | 150.23      | 42.53                 | 2,234.63                          | 1,361.57   | 3,175.81             | 3,045.29              | 130.52                  | 24.333            |                    |           |
| 2,500.00                   | 2,499.37            | 563.00              | 562.89              | 8.75            | 150.23      | 42.11                 | 2,234.63                          | 1,361.57   | 3,229.27             | 3,100.85              | 128.41                  | 25.147            |                    |           |
| 2,600.00                   | 2,598.90            | 563.00              | 562.89              | 9.11            | 150.23      | 41.67                 | 2,234.63                          | 1,361.57   | 3,283.83             | 3,157.55              | 126.28                  | 26.004            |                    |           |
| 2,700.00                   | 2,698.26            | 563.00              | 562.89              | 9.46            | 150.23      | 41.23                 | 2,234.63                          | 1,361.57   | 3,339.43             | 3,215.30              | 124.13                  | 26.902            |                    |           |
| 2,800.00                   | 2,797.40            | 563.00              | 562.89              | 9.82            | 150.23      | 40.78                 | 2,234.63                          | 1,361.57   | 3,396.00             | 3,274.03              | 121.97                  | 27.844            |                    |           |
| 2,900.00                   | 2,896.30            | 563.00              | 562.89              | 10.18           | 150.23      | 40.32                 | 2,234.63                          | 1,361.57   | 3,453.46             | 3,333.67              | 119.79                  | 28.829            |                    |           |
| 3,000.00                   | 2,994.93            | 563.00              | 562.89              | 10.54           | 150.23      | 39.86                 | 2,234.63                          | 1,361.57   | 3,511.77             | 3,394.16              | 117.61                  | 29.859            |                    |           |
| 3,100.00                   | 3,093.26            | 563.00              | 562.89              | 10.90           | 150.23      | 39.40                 | 2,234.63                          | 1,361.57   | 3,570.86             | 3,455.42              | 115.43                  | 30.934            |                    |           |
| 3,195.07                   | 3,186.42            | 563.00              | 562.89              | 11.24           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 3,627.70             | 3,514.33              | 113.37                  | 31.999            |                    |           |
| 3,200.00                   | 3,191.25            | 563.00              | 562.89              | 11.26           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 3,630.67             | 3,517.41              | 113.26                  | 32.056            |                    |           |
| 3,300.00                   | 3,289.08            | 563.00              | 562.89              | 11.62           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 3,691.75             | 3,580.64              | 111.11                  | 33.226            |                    |           |
| 3,400.00                   | 3,386.91            | 563.00              | 562.89              | 11.98           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 3,754.49             | 3,645.50              | 108.99                  | 34.448            |                    |           |
| 3,500.00                   | 3,484.74            | 563.00              | 562.89              | 12.35           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 3,818.83             | 3,711.92              | 106.91                  | 35.721            |                    |           |
| 3,600.00                   | 3,582.58            | 563.00              | 562.89              | 12.72           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 3,884.67             | 3,779.81              | 104.86                  | 37.047            |                    |           |
| 3,700.00                   | 3,680.41            | 563.00              | 562.89              | 13.09           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 3,951.95             | 3,849.10              | 102.85                  | 38.424            |                    |           |
| 3,800.00                   | 3,778.24            | 563.00              | 562.89              | 13.46           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,020.59             | 3,919.70              | 100.88                  | 39.854            |                    |           |
| 3,900.00                   | 3,876.08            | 563.00              | 562.89              | 13.83           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,090.52             | 3,991.56              | 98.96                   | 41.334            |                    |           |
| 4,000.00                   | 3,973.91            | 563.00              | 562.89              | 14.21           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,161.68             | 4,064.59              | 97.09                   | 42.866            |                    |           |
| 4,100.00                   | 4,071.74            | 563.00              | 562.89              | 14.58           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,234.00             | 4,138.75              | 95.25                   | 44.450            |                    |           |
| 4,200.00                   | 4,169.57            | 563.00              | 562.89              | 14.96           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,307.44             | 4,213.97              | 93.47                   | 46.084            |                    |           |
| 4,300.00                   | 4,267.41            | 563.00              | 562.89              | 15.33           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,381.92             | 4,290.19              | 91.73                   | 47.768            |                    |           |
| 4,400.00                   | 4,365.24            | 563.00              | 562.89              | 15.71           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,457.41             | 4,367.36              | 90.04                   | 49.503            |                    |           |
| 4,500.00                   | 4,463.07            | 563.00              | 562.89              | 16.09           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,533.84             | 4,445.44              | 88.40                   | 51.287            |                    |           |
| 4,600.00                   | 4,560.90            | 563.00              | 562.89              | 16.47           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,611.17             | 4,524.37              | 86.81                   | 53.121            |                    |           |
| 4,700.00                   | 4,658.74            | 563.00              | 562.89              | 16.85           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,689.36             | 4,604.11              | 85.26                   | 55.003            |                    |           |
| 4,800.00                   | 4,756.57            | 563.00              | 562.89              | 17.23           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,768.37             | 4,684.62              | 83.75                   | 56.933            |                    |           |
| 4,900.00                   | 4,854.40            | 563.00              | 562.89              | 17.61           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,848.15             | 4,765.86              | 82.30                   | 58.910            |                    |           |
| 5,000.00                   | 4,952.23            | 563.00              | 562.89              | 17.99           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,928.67             | 4,847.79              | 80.89                   | 60.934            |                    |           |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |                                   |                      |                       |                         |                   | Offset Site Error: | 0.00 ft   |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|-----------------------------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|-----------|
| Survey Program: 5-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |                                   |                      |                       |                         |                   | Offset Well Error: | 150.00 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |                                   |                      |                       |                         |                   | Warning            |           |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |           |
| 5,100.00                   | 5,050.07            | 563.00              | 562.89              | 18.37           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 5,009.89             | 4,930.38              | 79.52                   | 63.003            |                    |           |
| 5,200.00                   | 5,147.90            | 563.00              | 562.89              | 18.75           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 5,091.78             | 5,013.59              | 78.19                   | 65.117            |                    |           |
| 5,300.00                   | 5,245.73            | 563.00              | 562.89              | 19.14           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 5,174.31             | 5,097.40              | 76.91                   | 67.275            |                    |           |
| 5,400.00                   | 5,343.56            | 563.00              | 562.89              | 19.52           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 5,257.44             | 5,181.77              | 75.67                   | 69.476            |                    |           |
| 5,500.00                   | 5,441.40            | 563.00              | 562.89              | 19.90           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 5,341.15             | 5,266.68              | 74.47                   | 71.718            |                    |           |
| 5,600.00                   | 5,539.23            | 563.00              | 562.89              | 20.29           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 5,425.42             | 5,352.10              | 73.32                   | 74.001            |                    |           |
| 5,700.00                   | 5,637.06            | 563.00              | 562.89              | 20.67           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 5,510.21             | 5,438.01              | 72.20                   | 76.323            |                    |           |
| 5,800.00                   | 5,734.90            | 563.00              | 562.89              | 21.05           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 5,595.50             | 5,524.38              | 71.11                   | 78.683            |                    |           |
| 5,900.00                   | 5,832.73            | 563.00              | 562.89              | 21.44           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 5,681.27             | 5,611.20              | 70.07                   | 81.080            |                    |           |
| 6,000.00                   | 5,930.56            | 563.00              | 562.89              | 21.83           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 5,767.50             | 5,698.44              | 69.06                   | 83.511            |                    |           |
| 6,100.00                   | 6,028.39            | 563.00              | 562.89              | 22.21           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 5,854.17             | 5,786.08              | 68.09                   | 85.977            |                    |           |
| 6,200.00                   | 6,126.23            | 563.00              | 562.89              | 22.60           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 5,941.25             | 5,874.10              | 67.15                   | 88.474            |                    |           |
| 6,300.00                   | 6,224.06            | 563.00              | 562.89              | 22.98           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 6,028.74             | 5,962.49              | 66.25                   | 91.002            |                    |           |
| 6,400.00                   | 6,321.89            | 563.00              | 562.89              | 23.37           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 6,116.61             | 6,051.23              | 65.38                   | 93.558            |                    |           |
| 6,500.00                   | 6,419.72            | 563.00              | 562.89              | 23.76           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 6,204.85             | 6,140.31              | 64.54                   | 96.141            |                    |           |
| 6,600.00                   | 6,517.56            | 563.00              | 562.89              | 24.14           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 6,293.44             | 6,229.71              | 63.73                   | 98.749            |                    |           |
| 6,700.00                   | 6,615.39            | 563.00              | 562.89              | 24.53           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 6,382.37             | 6,319.41              | 62.95                   | 101.381           |                    |           |
| 6,800.00                   | 6,713.22            | 563.00              | 562.89              | 24.92           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 6,471.62             | 6,409.41              | 62.21                   | 104.034           |                    |           |
| 6,900.00                   | 6,811.05            | 563.00              | 562.89              | 25.30           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 6,561.18             | 6,499.69              | 61.49                   | 106.706           |                    |           |
| 7,000.00                   | 6,908.89            | 563.00              | 562.89              | 25.69           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 6,651.04             | 6,590.24              | 60.80                   | 109.396           |                    |           |
| 7,100.00                   | 7,006.72            | 563.00              | 562.89              | 26.08           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 6,741.18             | 6,681.05              | 60.14                   | 112.100           |                    |           |
| 7,200.00                   | 7,104.55            | 563.00              | 562.89              | 26.47           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 6,831.60             | 6,772.10              | 59.50                   | 114.818           |                    |           |
| 7,216.87                   | 7,121.05            | 563.00              | 562.89              | 26.53           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57                          | 6,846.88             | 6,787.48              | 59.39                   | 115.278           |                    |           |
| 7,300.00                   | 7,202.57            | 563.00              | 562.89              | 26.85           | 150.23      | 40.71                 | 2,234.63                          | 1,361.57                          | 6,922.57             | 6,863.67              | 58.90                   | 117.537           |                    |           |
| 7,400.00                   | 7,301.06            | 563.00              | 562.89              | 27.23           | 150.23      | 43.06                 | 2,234.63                          | 1,361.57                          | 7,014.56             | 6,956.23              | 58.34                   | 120.239           |                    |           |
| 7,500.00                   | 7,399.97            | 563.00              | 562.89              | 27.61           | 150.23      | 45.70                 | 2,234.63                          | 1,361.57                          | 7,107.49             | 7,049.67              | 57.82                   | 122.921           |                    |           |
| 7,600.00                   | 7,499.23            | 563.00              | 562.89              | 27.98           | 150.23      | 48.67                 | 2,234.63                          | 1,361.57                          | 7,201.26             | 7,143.91              | 57.35                   | 125.577           |                    |           |
| 7,700.00                   | 7,598.77            | 563.00              | 562.89              | 28.34           | 150.23      | 52.00                 | 2,234.63                          | 1,361.57                          | 7,295.76             | 7,238.86              | 56.91                   | 128.204           |                    |           |
| 7,800.00                   | 7,698.53            | 563.00              | 562.89              | 28.70           | 150.23      | 55.75                 | 2,234.63                          | 1,361.57                          | 7,390.92             | 7,334.41              | 56.51                   | 130.796           |                    |           |
| 7,900.00                   | 7,798.44            | 563.00              | 562.89              | 29.05           | 150.23      | 59.95                 | 2,234.63                          | 1,361.57                          | 7,486.63             | 7,430.49              | 56.14                   | 133.347           |                    |           |
| 8,000.00                   | 7,898.42            | 563.00              | 562.89              | 29.39           | 150.23      | 64.62                 | 2,234.63                          | 1,361.57                          | 7,582.82             | 7,527.00              | 55.82                   | 135.853           |                    |           |
| 8,013.58                   | 7,912.00            | 563.00              | 562.89              | 29.43           | 150.23      | 52.51                 | 2,234.63                          | 1,361.57                          | 7,595.91             | 7,540.14              | 55.77                   | 136.189           |                    |           |
| 8,100.00                   | 7,998.42            | 563.00              | 562.89              | 29.73           | 150.23      | 52.51                 | 2,234.63                          | 1,361.57                          | 7,679.30             | 7,623.79              | 55.52                   | 138.325           |                    |           |
| 8,200.00                   | 8,098.42            | 563.00              | 562.89              | 30.07           | 150.23      | 52.51                 | 2,234.63                          | 1,361.57                          | 7,775.87             | 7,720.64              | 55.23                   | 140.785           |                    |           |
| 8,300.00                   | 8,198.42            | 563.00              | 562.89              | 30.41           | 150.23      | 52.51                 | 2,234.63                          | 1,361.57                          | 7,872.53             | 7,817.57              | 54.96                   | 143.232           |                    |           |
| 8,363.62                   | 8,262.04            | 563.00              | 562.89              | 30.62           | 150.23      | 52.51                 | 2,234.63                          | 1,361.57                          | 7,934.07             | 7,879.27              | 54.80                   | 144.782           |                    |           |
| 8,400.00                   | 8,298.40            | 563.00              | 562.89              | 30.75           | 150.23      | -30.16                | 2,234.63                          | 1,361.57                          | 7,969.02             | 7,914.33              | 54.69                   | 145.710           |                    |           |
| 8,450.00                   | 8,348.10            | 563.00              | 562.89              | 30.91           | 150.23      | -23.85                | 2,234.63                          | 1,361.57                          | 8,016.06             | 7,961.57              | 54.49                   | 147.113           |                    |           |
| 8,500.00                   | 8,397.14            | 563.00              | 562.89              | 31.07           | 150.23      | -19.71                | 2,234.63                          | 1,361.57                          | 8,061.66             | 8,007.43              | 54.23                   | 148.651           |                    |           |
| 8,550.00                   | 8,445.15            | 563.00              | 562.89              | 31.23           | 150.23      | -16.85                | 2,234.63                          | 1,361.57                          | 8,105.50             | 8,051.57              | 53.92                   | 150.314           |                    |           |
| 8,600.00                   | 8,491.77            | 563.00              | 562.89              | 31.38           | 150.23      | -14.78                | 2,234.63                          | 1,361.57                          | 8,147.26             | 8,093.69              | 53.57                   | 152.092           |                    |           |
| 8,650.00                   | 8,536.65            | 563.00              | 562.89              | 31.52           | 150.23      | -13.23                | 2,234.63                          | 1,361.57                          | 8,186.67             | 8,133.50              | 53.17                   | 153.975           |                    |           |
| 8,700.00                   | 8,579.43            | 563.00              | 562.89              | 31.66           | 150.23      | -12.04                | 2,234.63                          | 1,361.57                          | 8,223.46             | 8,170.73              | 52.73                   | 155.949           |                    |           |
| 8,750.00                   | 8,619.80            | 563.00              | 562.89              | 31.80           | 150.23      | -11.11                | 2,234.63                          | 1,361.57                          | 8,257.40             | 8,205.14              | 52.26                   | 158.002           |                    |           |
| 8,800.00                   | 8,657.44            | 563.00              | 562.89              | 31.93           | 150.23      | -10.38                | 2,234.63                          | 1,361.57                          | 8,288.25             | 8,236.49              | 51.76                   | 160.119           |                    |           |
| 8,850.00                   | 8,692.08            | 563.00              | 562.89              | 32.06           | 150.23      | -9.80                 | 2,234.63                          | 1,361.57                          | 8,315.82             | 8,264.58              | 51.24                   | 162.281           |                    |           |
| 8,900.00                   | 8,723.44            | 563.00              | 562.89              | 32.19           | 150.23      | -9.34                 | 2,234.63                          | 1,361.57                          | 8,339.94             | 8,289.23              | 50.71                   | 164.470           |                    |           |
| 8,950.00                   | 8,751.29            | 563.00              | 562.89              | 32.34           | 150.23      | -8.98                 | 2,234.63                          | 1,361.57                          | 8,360.44             | 8,310.28              | 50.16                   | 166.663           |                    |           |
| 9,000.00                   | 8,775.42            | 563.00              | 562.89              | 32.50           | 150.23      | -8.71                 | 2,234.63                          | 1,361.57                          | 8,377.21             | 8,327.59              | 49.62                   | 168.838           |                    |           |
| 9,050.00                   | 8,795.64            | 563.00              | 562.89              | 32.67           | 150.23      | -8.51                 | 2,234.63                          | 1,361.57                          | 8,390.13             | 8,341.05              | 49.07                   | 170.969           |                    |           |
| 9,100.00                   | 8,811.80            | 563.00              | 562.89              | 32.87           | 150.23      | -8.37                 | 2,234.63                          | 1,361.57                          | 8,399.12             | 8,350.58              | 48.54                   | 173.032           |                    |           |
| 9,150.00                   | 8,823.77            | 563.00              | 562.89              | 33.10           | 150.23      | -8.30                 | 2,234.63                          | 1,361.57                          | 8,404.14             | 8,356.12              | 48.02                   | 175.000           |                    |           |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft   |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|-----------|
| Survey Program: 5-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 150.00 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |           |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |           |
| 9,200.00                   | 8,831.47            | 563.00              | 562.89              | 33.34           | 150.23      | -8.29                 | 2,234.63                          | 1,361.57   | 8,405.14             | 8,357.62              | 47.53                   | 176.847           |                    |           |
| 9,250.00                   | 8,834.84            | 563.00              | 562.89              | 33.60           | 150.23      | -8.33                 | 2,234.63                          | 1,361.57   | 8,402.13             | 8,355.07              | 47.06                   | 178.548           |                    |           |
| 9,263.62                   | 8,835.00            | 563.00              | 562.89              | 33.67           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,400.62             | 8,353.68              | 46.94                   | 178.979           |                    |           |
| 9,300.00                   | 8,835.00            | 563.00              | 562.89              | 33.88           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,396.25             | 8,349.63              | 46.62                   | 180.114           |                    |           |
| 9,400.00                   | 8,835.00            | 563.00              | 562.89              | 34.53           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,385.05             | 8,339.25              | 45.81                   | 183.045           |                    |           |
| 9,500.00                   | 8,835.00            | 563.00              | 562.89              | 35.30           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,375.04             | 8,329.92              | 45.11                   | 185.638           |                    |           |
| 9,600.00                   | 8,835.00            | 563.00              | 562.89              | 36.17           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,366.20             | 8,321.66              | 44.54                   | 187.824           |                    |           |
| 9,700.00                   | 8,835.00            | 563.00              | 562.89              | 37.13           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,358.56             | 8,314.45              | 44.10                   | 189.531           |                    |           |
| 9,800.00                   | 8,835.00            | 563.00              | 562.89              | 38.18           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,352.10             | 8,308.30              | 43.80                   | 190.693           |                    |           |
| 9,900.00                   | 8,835.00            | 563.00              | 562.89              | 39.31           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,346.84             | 8,303.19              | 43.64                   | 191.249           |                    |           |
| 10,000.00                  | 8,835.00            | 563.00              | 562.89              | 40.51           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,342.77             | 8,299.12              | 43.64                   | 191.155           |                    |           |
| 10,100.00                  | 8,835.00            | 563.00              | 562.89              | 41.78           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,339.90             | 8,296.09              | 43.81                   | 190.383           |                    |           |
| 10,200.00                  | 8,835.00            | 563.00              | 562.89              | 43.10           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,338.22             | 8,294.09              | 44.13                   | 188.931           |                    |           |
| 10,289.48                  | 8,835.00            | 563.00              | 562.89              | 44.34           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,337.74             | 8,293.17              | 44.57                   | 187.071           |                    |           |
| 10,300.00                  | 8,835.00            | 563.00              | 562.89              | 44.49           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,337.75             | 8,293.12              | 44.63                   | 186.823           |                    |           |
| 10,400.00                  | 8,835.00            | 563.00              | 562.89              | 45.92           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,338.48             | 8,293.18              | 45.29                   | 184.108           |                    |           |
| 10,500.00                  | 8,835.00            | 563.00              | 562.89              | 47.39           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,340.40             | 8,294.28              | 46.12                   | 180.856           |                    |           |
| 10,600.00                  | 8,835.00            | 563.00              | 562.89              | 48.91           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,343.52             | 8,296.43              | 47.10                   | 177.155           |                    |           |
| 10,700.00                  | 8,835.00            | 563.00              | 562.89              | 50.47           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,347.84             | 8,299.62              | 48.23                   | 173.101           |                    |           |
| 10,800.00                  | 8,835.00            | 563.00              | 562.89              | 52.06           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,353.36             | 8,303.87              | 49.49                   | 168.790           |                    |           |
| 10,900.00                  | 8,835.00            | 563.00              | 562.89              | 53.68           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,360.07             | 8,309.19              | 50.88                   | 164.316           |                    |           |
| 11,000.00                  | 8,835.00            | 563.00              | 562.89              | 55.32           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,367.96             | 8,315.58              | 52.38                   | 159.760           |                    |           |
| 11,100.00                  | 8,835.00            | 563.00              | 562.89              | 57.00           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,377.05             | 8,323.07              | 53.98                   | 155.193           |                    |           |
| 11,200.00                  | 8,835.00            | 563.00              | 562.89              | 58.70           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,387.31             | 8,331.65              | 55.67                   | 150.673           |                    |           |
| 11,300.00                  | 8,835.00            | 563.00              | 562.89              | 60.41           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,398.76             | 8,341.33              | 57.43                   | 146.245           |                    |           |
| 11,400.00                  | 8,835.00            | 563.00              | 562.89              | 62.15           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,411.37             | 8,352.12              | 59.26                   | 141.942           |                    |           |
| 11,500.00                  | 8,835.00            | 563.00              | 562.89              | 63.91           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,425.16             | 8,364.02              | 61.15                   | 137.789           |                    |           |
| 11,600.00                  | 8,835.00            | 563.00              | 562.89              | 65.69           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,440.11             | 8,377.03              | 63.08                   | 133.802           |                    |           |
| 11,700.00                  | 8,835.00            | 563.00              | 562.89              | 67.47           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,456.21             | 8,391.16              | 65.05                   | 129.989           |                    |           |
| 11,800.00                  | 8,835.00            | 563.00              | 562.89              | 69.28           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,473.47             | 8,406.41              | 67.06                   | 126.356           |                    |           |
| 11,900.00                  | 8,835.00            | 563.00              | 562.89              | 71.09           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,491.86             | 8,422.77              | 69.09                   | 122.903           |                    |           |
| 12,000.00                  | 8,835.00            | 563.00              | 562.89              | 72.92           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,511.40             | 8,440.25              | 71.15                   | 119.627           |                    |           |
| 12,100.00                  | 8,835.00            | 563.00              | 562.89              | 74.76           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,532.05             | 8,458.83              | 73.22                   | 116.524           |                    |           |
| 12,200.00                  | 8,835.00            | 563.00              | 562.89              | 76.61           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,553.83             | 8,478.53              | 75.31                   | 113.588           |                    |           |
| 12,300.00                  | 8,835.00            | 563.00              | 562.89              | 78.47           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,576.72             | 8,499.32              | 77.40                   | 110.813           |                    |           |
| 12,400.00                  | 8,835.00            | 563.00              | 562.89              | 80.34           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,600.71             | 8,521.22              | 79.49                   | 108.192           |                    |           |
| 12,500.00                  | 8,835.00            | 563.00              | 562.89              | 82.22           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,625.80             | 8,544.20              | 81.59                   | 105.717           |                    |           |
| 12,600.00                  | 8,835.00            | 563.00              | 562.89              | 84.11           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,651.96             | 8,568.27              | 83.69                   | 103.380           |                    |           |
| 12,700.00                  | 8,835.00            | 563.00              | 562.89              | 86.00           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,679.20             | 8,593.42              | 85.78                   | 101.175           |                    |           |
| 12,800.00                  | 8,835.00            | 563.00              | 562.89              | 87.90           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,707.51             | 8,619.64              | 87.87                   | 99.094            |                    |           |
| 12,900.00                  | 8,835.00            | 563.00              | 562.89              | 89.81           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,736.86             | 8,646.91              | 89.95                   | 97.130            |                    |           |
| 13,000.00                  | 8,835.00            | 563.00              | 562.89              | 91.72           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,767.26             | 8,675.24              | 92.02                   | 95.276            |                    |           |
| 13,100.00                  | 8,835.00            | 563.00              | 562.89              | 93.64           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,798.69             | 8,704.62              | 94.08                   | 93.526            |                    |           |
| 13,200.00                  | 8,835.00            | 563.00              | 562.89              | 95.56           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,831.14             | 8,735.02              | 96.12                   | 91.875            |                    |           |
| 13,300.00                  | 8,835.00            | 563.00              | 562.89              | 97.49           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,864.60             | 8,766.45              | 98.15                   | 90.316            |                    |           |
| 13,400.00                  | 8,835.00            | 563.00              | 562.89              | 99.42           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,899.06             | 8,798.90              | 100.17                  | 88.844            |                    |           |
| 13,500.00                  | 8,835.00            | 563.00              | 562.89              | 101.36          | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,934.51             | 8,832.34              | 102.16                  | 87.454            |                    |           |
| 13,600.00                  | 8,835.00            | 563.00              | 562.89              | 103.30          | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,970.93             | 8,866.78              | 104.14                  | 86.141            |                    |           |
| 13,700.00                  | 8,835.00            | 563.00              | 562.89              | 105.25          | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 9,008.31             | 8,902.21              | 106.10                  | 84.902            |                    |           |
| 13,800.00                  | 8,835.00            | 563.00              | 562.89              | 107.20          | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 9,046.64             | 8,938.60              | 108.04                  | 83.732            |                    |           |
| 13,900.00                  | 8,835.00            | 563.00              | 562.89              | 109.15          | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 9,085.91             | 8,975.95              | 109.96                  | 82.626            |                    |           |
| 14,000.00                  | 8,835.00            | 563.00              | 562.89              | 111.10          | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 9,126.11             | 9,014.25              | 111.86                  | 81.582            |                    |           |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Magnolia State 2 (P&A) - Wellbore #1 - Wellbore #1 |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 0.00 ft   |
|--------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|-----------|
| Survey Program: 5-INC-ONLY                                                                 |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 150.00 ft |
| Reference                                                                                  |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                           | Warning   |
| Measured Depth<br>(ft)                                                                     | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |           |
| 14,100.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 113.06            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,167.23                   | 9,053.48                    | 113.74                        | 80.596                    |           |
| 14,200.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 115.03            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,209.24                   | 9,093.64                    | 115.60                        | 79.665                    |           |
| 14,300.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 116.99            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,252.15                   | 9,134.72                    | 117.43                        | 78.786                    |           |
| 14,400.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 118.96            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,295.93                   | 9,176.69                    | 119.25                        | 77.956                    |           |
| 14,500.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 120.93            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,340.58                   | 9,219.55                    | 121.03                        | 77.173                    |           |
| 14,600.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 122.90            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,386.08                   | 9,263.29                    | 122.80                        | 76.435                    |           |
| 14,700.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 124.88            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,432.43                   | 9,307.89                    | 124.54                        | 75.738                    |           |
| 14,800.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 126.86            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,479.60                   | 9,353.34                    | 126.26                        | 75.081                    |           |
| 14,900.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 128.84            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,527.59                   | 9,399.63                    | 127.95                        | 74.462                    |           |
| 15,000.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 130.82            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,576.38                   | 9,446.75                    | 129.62                        | 73.878                    |           |
| 15,100.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 132.80            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,625.96                   | 9,494.69                    | 131.27                        | 73.329                    |           |
| 15,200.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 134.79            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,676.32                   | 9,543.43                    | 132.89                        | 72.813                    |           |
| 15,300.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 136.78            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,727.45                   | 9,592.96                    | 134.49                        | 72.328                    |           |
| 15,400.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 138.76            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,779.34                   | 9,643.27                    | 136.07                        | 71.872                    |           |
| 15,500.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 140.76            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,831.96                   | 9,694.35                    | 137.62                        | 71.445                    |           |
| 15,600.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 142.75            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,885.32                   | 9,746.18                    | 139.14                        | 71.044                    |           |
| 15,700.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 144.74            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,939.40                   | 9,798.76                    | 140.65                        | 70.669                    |           |
| 15,800.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 146.74            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,994.19                   | 9,852.06                    | 142.13                        | 70.319                    |           |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

Reference Depths are relative to RKB @ 3269.80ft

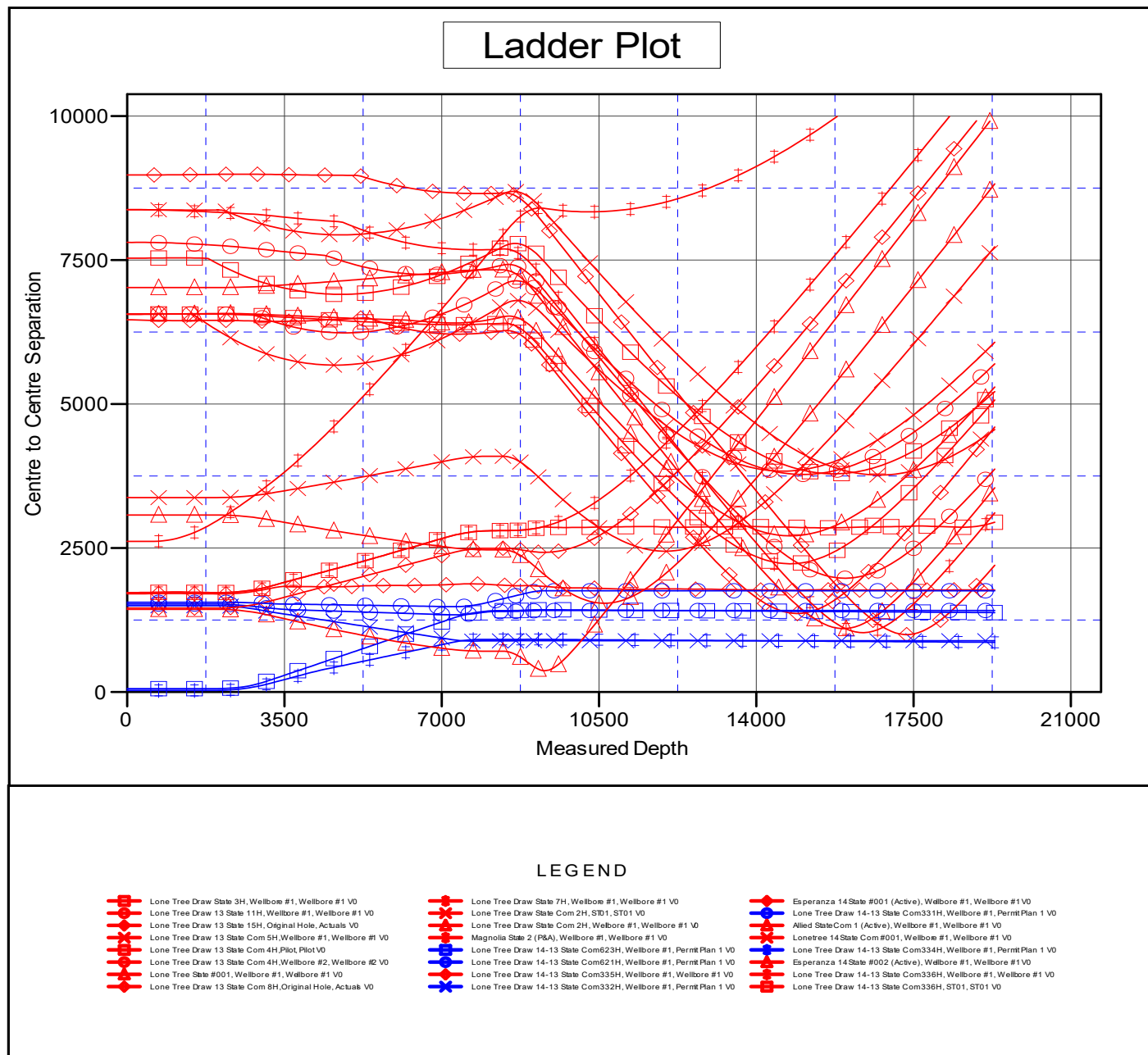
Offset Depths are relative to Offset Datum

Central Meridian is -104.333334

Coordinates are relative to: Lone Tree Draw 14-13 State Com 333H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.09°



CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

Reference Depths are relative to RKB @ 3269.80ft

Offset Depths are relative to Offset Datum

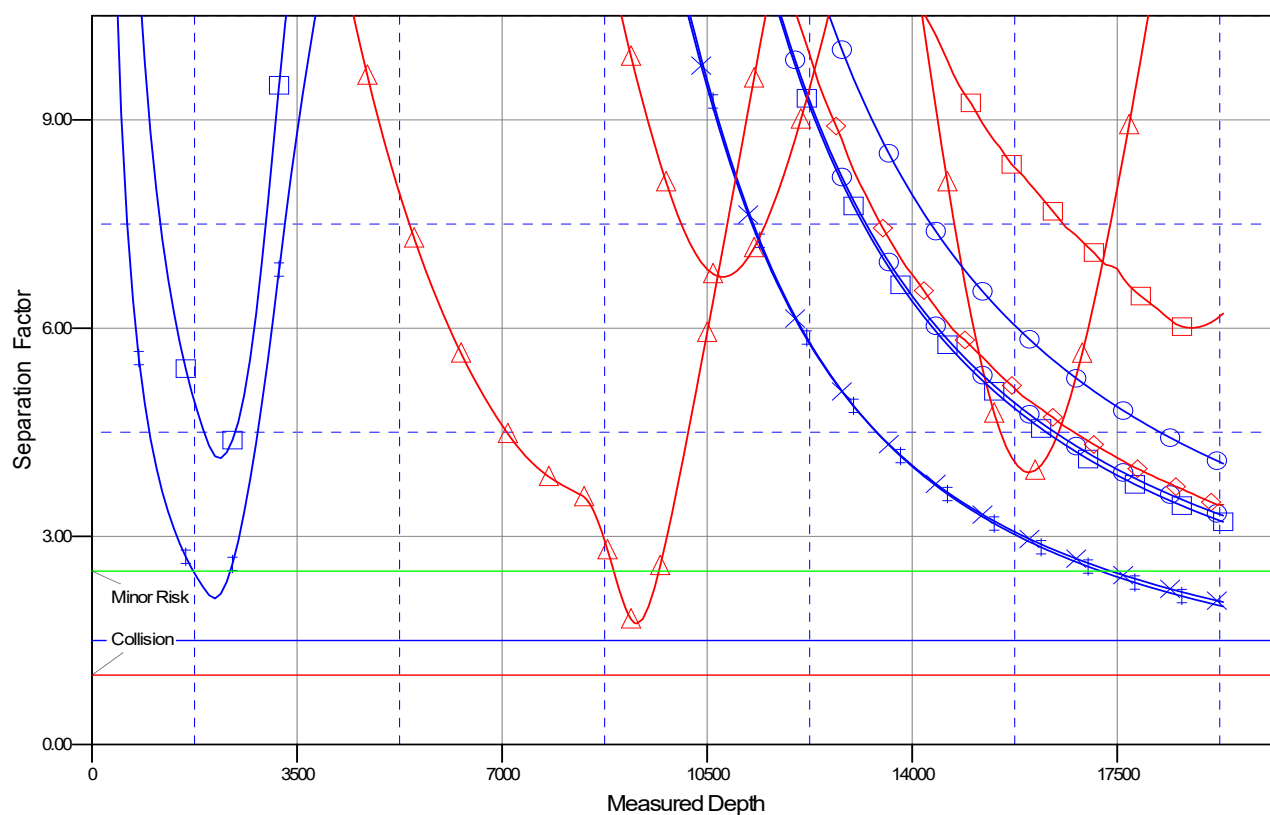
Central Meridian is -104.333334

Coordinates are relative to: Lone Tree Draw 14-13 State Com 333H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.09°

### Separation Factor Plot



#### LEGEND

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Lone Tree Draw State 3H, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 13 State 11H, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 13 State 15H, Original Hole, Actual V0</li> <li>Lone Tree Draw 13 State Com 5H, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 13 State Com 4H, Plot Plot V0</li> <li>Lone Tree Draw 13 State Com 4H, Wellbore #2, Wellbore #2 V0</li> <li>Lone Tree State #001, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 13 State Com 8H, Original Hole, Actual V0</li> </ul> | <ul style="list-style-type: none"> <li>Lone Tree Draw State 7H, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw State Com 2H, ST01, ST01 V0</li> <li>Lone Tree Draw State Com 2H, Wellbore #1, Wellbore #1 V0</li> <li>Magnolia State 2 (P&amp;A), Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 14-13 State Com 623H, Wellbore #1, Permit Plan 1 V0</li> <li>Lone Tree Draw 14-13 State Com 621H, Wellbore #1, Permit Plan 1 V0</li> <li>Lone Tree Draw 14-13 State Com 335H, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 14-13 State Com 332H, Wellbore #1, Permit Plan 1 V0</li> </ul> | <ul style="list-style-type: none"> <li>Esperanza 14 State #001 (Active), Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 14-13 State Com 331H, Wellbore #1, Permit Plan 1 V0</li> <li>Allied State Com 1 (Active), Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree 14 State Com #001, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 14-13 State Com 334H, Wellbore #1, Permit Plan 1 V0</li> <li>Esperanza 14 State #002 (Active), Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 14-13 State Com 336H, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 14-13 State Com 336H, ST01, ST01 V0</li> </ul> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# **WCDSC Permian NM**

**Eddy County (NAD 83 NM Eastern)**

**Sec 14-T21S-R27E**

**Lone Tree Draw 14-13 State Com 333H**

**Wellbore #1**

**Permit Plan 1**

## **Anticollision Report**

**07 October, 2019**

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

|                                     |                                                                     |                       |                     |
|-------------------------------------|---------------------------------------------------------------------|-----------------------|---------------------|
| <b>Reference</b>                    | Permit Plan 1                                                       |                       |                     |
| <b>Filter type:</b>                 | NO GLOBAL FILTER: Using user defined selection & filtering criteria |                       |                     |
| <b>Interpolation Method:</b>        | Stations                                                            | <b>Error Model:</b>   | ISCWSA              |
| <b>Depth Range:</b>                 | Unlimited                                                           | <b>Scan Method:</b>   | Closest Approach 3D |
| <b>Results Limited by:</b>          | Maximum center-center distance of 10,000.00 ft                      | <b>Error Surface:</b> | Pedal Curve         |
| <b>Warning Levels Evaluated at:</b> | 2.00 Sigma                                                          | <b>Casing Method:</b> | Not applied         |

|                            |                |                             |                  |                    |
|----------------------------|----------------|-----------------------------|------------------|--------------------|
| <b>Survey Tool Program</b> | <b>Date</b>    | 10/4/2019                   |                  |                    |
| <b>From (ft)</b>           | <b>To (ft)</b> | <b>Survey (Wellbore)</b>    | <b>Tool Name</b> | <b>Description</b> |
| 0.00                       | 19,308.27      | Permit Plan 1 (Wellbore #1) | MWD+IFR1         | OWSG MWD + IFR1    |

| <b>Summary</b>                                         |                               |                            |                               |                                |                   |               |
|--------------------------------------------------------|-------------------------------|----------------------------|-------------------------------|--------------------------------|-------------------|---------------|
| Site Name                                              | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning       |
| <b>Offset Well - Wellbore - Design</b>                 |                               |                            |                               |                                |                   |               |
| Sec 13-T21S-R27E                                       |                               |                            |                               |                                |                   |               |
| Lone Tree Draw 13 State 11H - Wellbore #1 - Wellbore # | 15,975.33                     | 8,463.95                   | 1,977.03                      | 1,899.27                       | 25.423            | CC            |
| Lone Tree Draw 13 State 11H - Wellbore #1 - Wellbore # | 16,000.00                     | 8,465.04                   | 1,977.18                      | 1,899.19                       | 25.351            | ES            |
| Lone Tree Draw 13 State 11H - Wellbore #1 - Wellbore # | 19,100.00                     | 19,100.00                  | 3,694.56                      | 3,488.19                       | 17.902            | SF            |
| Lone Tree Draw 13 State 15H - Original Hole - Actuals  | 14,914.32                     | 14,914.32                  | 1,364.10                      | 1,257.65                       | 12.815            | CC, ES        |
| Lone Tree Draw 13 State 15H - Original Hole - Actuals  | 15,000.00                     | 15,000.00                  | 1,366.79                      | 1,258.60                       | 12.634            | SF            |
| Lone Tree Draw 13 State Com 4H - Pilot - Pilot         | 14,751.24                     | 7,876.00                   | 2,227.48                      | 2,082.89                       | 15.405            | CC            |
| Lone Tree Draw 13 State Com 4H - Pilot - Pilot         | 14,800.00                     | 7,876.00                   | 2,228.01                      | 2,082.53                       | 15.315            | ES            |
| Lone Tree Draw 13 State Com 4H - Pilot - Pilot         | 15,100.00                     | 7,876.00                   | 2,254.62                      | 2,104.80                       | 15.049            | SF            |
| Lone Tree Draw 13 State Com 4H - Wellbore #2 - Wellbo  | 12,600.00                     | 12,600.00                  | 4,496.64                      | 4,383.15                       | 39.621            | SF            |
| Lone Tree Draw 13 State Com 4H - Wellbore #2 - Wellbo  | 15,040.39                     | 6,780.00                   | 3,778.28                      | 3,708.78                       | 54.369            | CC            |
| Lone Tree Draw 13 State Com 4H - Wellbore #2 - Wellbo  | 15,100.00                     | 6,780.00                   | 3,778.75                      | 3,708.77                       | 54.000            | ES            |
| Lone Tree Draw 13 State Com 5H - Wellbore #1 - Wellbo  | 16,740.01                     | 7,077.00                   | 3,767.73                      | 3,683.80                       | 44.890            | CC            |
| Lone Tree Draw 13 State Com 5H - Wellbore #1 - Wellbo  | 16,800.00                     | 7,079.22                   | 3,768.21                      | 3,683.76                       | 44.622            | ES            |
| Lone Tree Draw 13 State Com 5H - Wellbore #1 - Wellbo  | 18,000.00                     | 7,119.38                   | 3,972.52                      | 3,878.08                       | 42.061            | SF            |
| Lone Tree Draw 13 State Com 8H - Original Hole - Actua | 17,346.61                     | 9,626.12                   | 997.32                        | 910.17                         | 11.445            | CC, ES        |
| Lone Tree Draw 13 State Com 8H - Original Hole - Actua | 17,600.00                     | 9,626.96                   | 1,029.00                      | 937.62                         | 11.260            | SF            |
| Lone Tree Draw State 3H - Wellbore #1 - Wellbore #1    | 15,723.69                     | 6,887.46                   | 3,789.77                      | 3,714.43                       | 50.301            | CC, ES        |
| Lone Tree Draw State 3H - Wellbore #1 - Wellbore #1    | 18,500.00                     | 18,500.00                  | 4,697.87                      | 4,492.52                       | 22.877            | SF            |
| Lone Tree Draw State 7H - Wellbore #1 - Wellbore #1    | 16,373.02                     | 9,889.06                   | 1,031.64                      | 947.12                         | 12.206            | CC, ES        |
| Lone Tree Draw State 7H - Wellbore #1 - Wellbore #1    | 16,500.00                     | 9,889.90                   | 1,039.43                      | 953.39                         | 12.081            | SF            |
| Lone Tree Draw State Com 2H - ST01 - ST01              | 14,592.75                     | 6,719.00                   | 3,835.98                      | 3,770.09                       | 58.215            | CC            |
| Lone Tree Draw State Com 2H - ST01 - ST01              | 14,600.00                     | 6,719.00                   | 3,835.99                      | 3,770.04                       | 58.164            | ES            |
| Lone Tree Draw State Com 2H - ST01 - ST01              | 16,100.00                     | 6,661.90                   | 4,120.61                      | 4,042.51                       | 52.762            | SF            |
| Lone Tree Draw State Com 2H - Wellbore #1 - Wellbore   | 14,760.69                     | 6,978.42                   | 2,712.38                      | 2,590.13                       | 22.188            | CC            |
| Lone Tree Draw State Com 2H - Wellbore #1 - Wellbore   | 14,800.00                     | 6,978.42                   | 2,712.66                      | 2,589.79                       | 22.078            | ES            |
| Lone Tree Draw State Com 2H - Wellbore #1 - Wellbore   | 15,300.00                     | 6,978.42                   | 2,765.47                      | 2,636.26                       | 21.402            | SF            |
| Lone Tree State #001 - Wellbore #1 - Wellbore #1       | 15,937.60                     | 8,753.20                   | 1,101.53                      | 821.12                         | 3.928             | Alert, CC, ES |
| Lone Tree State #001 - Wellbore #1 - Wellbore #1       | 16,000.00                     | 8,753.20                   | 1,103.30                      | 821.91                         | 3.921             | Alert, SF     |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Summary                                                 |                               |                            |                               |                                |                   |                    |
|---------------------------------------------------------|-------------------------------|----------------------------|-------------------------------|--------------------------------|-------------------|--------------------|
| Site Name                                               | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning            |
| Offset Well - Wellbore - Design                         |                               |                            |                               |                                |                   |                    |
| Sec 14-T21S-R27E                                        |                               |                            |                               |                                |                   |                    |
| Allied State Com 1 (Active) - Wellbore #1 - Wellbore #1 | 10,620.27                     | 8,815.20                   | 1,541.35                      | 1,313.69                       | 6.770             | CC, ES             |
| Allied State Com 1 (Active) - Wellbore #1 - Wellbore #1 | 10,800.00                     | 8,815.20                   | 1,551.80                      | 1,321.49                       | 6.738             | SF                 |
| Esperanza 14 State #001 (Active) - Wellbore #1 - Wellbo | 2,000.00                      | 1,989.20                   | 1,457.98                      | 1,421.37                       | 39.826            | CC                 |
| Esperanza 14 State #001 (Active) - Wellbore #1 - Wellbo | 2,100.00                      | 2,089.19                   | 1,458.85                      | 1,420.38                       | 37.928            | ES                 |
| Esperanza 14 State #001 (Active) - Wellbore #1 - Wellbo | 9,600.00                      | 8,824.20                   | 2,446.62                      | 2,278.48                       | 14.551            | SF                 |
| Esperanza 14 State #002 (Active) - Wellbore #1 - Wellbo | 9,295.36                      | 8,821.20                   | 370.33                        | 157.96                         | 1.744             | Minor Risk, CC, ES |
| Esperanza 14 State #002 (Active) - Wellbore #1 - Wellbo | 9,300.00                      | 8,821.20                   | 370.36                        | 157.96                         | 1.744             | Minor Risk, SF     |
| Lone Tree Draw 14-13 State Com 331H - Wellbore #1 - P   | 7,265.16                      | 6,980.06                   | 1,482.62                      | 1,430.79                       | 28.605            | CC                 |
| Lone Tree Draw 14-13 State Com 331H - Wellbore #1 - P   | 19,308.27                     | 19,322.16                  | 1,759.45                      | 1,324.93                       | 4.049             | Alert, ES, SF      |
| Lone Tree Draw 14-13 State Com 332H - Wellbore #1 - P   | 7,685.06                      | 7,540.96                   | 884.48                        | 829.48                         | 16.081            | CC                 |
| Lone Tree Draw 14-13 State Com 332H - Wellbore #1 - P   | 19,308.27                     | 19,281.48                  | 890.92                        | 457.17                         | 2.054             | Minor Risk, ES, SF |
| Lone Tree Draw 14-13 State Com 334H - Wellbore #1 - P   | 2,000.00                      | 2,000.30                   | 29.97                         | 16.04                          | 2.152             | Minor Risk, CC, ES |
| Lone Tree Draw 14-13 State Com 334H - Wellbore #1 - P   | 19,308.27                     | 19,300.82                  | 863.71                        | 430.01                         | 1.991             | Minor Risk, SF     |
| Lone Tree Draw 14-13 State Com 335H - Wellbore #1 - W   | 2,104.93                      | 2,150.71                   | 1,703.67                      | 1,689.49                       | 120.110           | CC                 |
| Lone Tree Draw 14-13 State Com 335H - Wellbore #1 - W   | 19,221.83                     | 19,158.00                  | 1,768.30                      | 1,256.71                       | 3.456             | Alert, ES          |
| Lone Tree Draw 14-13 State Com 335H - Wellbore #1 - W   | 19,308.27                     | 19,158.00                  | 1,770.41                      | 1,258.04                       | 3.455             | Alert, SF          |
| Lone Tree Draw 14-13 State Com 336H - ST01 - ST01       | 2,044.39                      | 2,071.95                   | 1,725.46                      | 1,711.88                       | 127.110           | CC                 |
| Lone Tree Draw 14-13 State Com 336H - ST01 - ST01       | 2,100.00                      | 2,126.07                   | 1,725.74                      | 1,711.78                       | 123.592           | ES                 |
| Lone Tree Draw 14-13 State Com 336H - ST01 - ST01       | 18,800.00                     | 19,172.00                  | 2,868.68                      | 2,390.90                       | 6.004             | SF                 |
| Lone Tree Draw 14-13 State Com 336H - Wellbore #1 - W   | 2,044.39                      | 2,071.95                   | 1,725.46                      | 1,711.88                       | 127.110           | CC                 |
| Lone Tree Draw 14-13 State Com 336H - Wellbore #1 - W   | 2,100.00                      | 2,126.07                   | 1,725.74                      | 1,711.78                       | 123.592           | ES                 |
| Lone Tree Draw 14-13 State Com 336H - Wellbore #1 - W   | 9,900.00                      | 8,726.24                   | 3,057.73                      | 2,989.74                       | 44.975            | SF                 |
| Lone Tree Draw 14-13 State Com 621H - Wellbore #1 - P   | 7,315.04                      | 7,058.96                   | 1,340.01                      | 1,287.84                       | 25.687            | CC                 |
| Lone Tree Draw 14-13 State Com 621H - Wellbore #1 - P   | 19,308.27                     | 19,506.25                  | 1,415.97                      | 986.68                         | 3.298             | Alert, ES, SF      |
| Lone Tree Draw 14-13 State Com 623H - Wellbore #1 - P   | 2,000.00                      | 2,000.90                   | 59.98                         | 46.05                          | 4.306             | Alert, CC, ES      |
| Lone Tree Draw 14-13 State Com 623H - Wellbore #1 - P   | 19,308.27                     | 19,456.84                  | 1,379.82                      | 949.96                         | 3.210             | Alert, SF          |
| Lonetree 14 State Com #001 - Wellbore #1 - Wellbore #1  | 11,974.55                     | 8,785.20                   | 2,444.69                      | 2,240.81                       | 11.991            | CC                 |
| Lonetree 14 State Com #001 - Wellbore #1 - Wellbore #1  | 12,000.00                     | 8,785.20                   | 2,444.82                      | 2,240.48                       | 11.965            | ES                 |
| Lonetree 14 State Com #001 - Wellbore #1 - Wellbore #1  | 12,400.00                     | 8,785.20                   | 2,481.43                      | 2,270.75                       | 11.778            | SF                 |
| Magnolia State 2 (P&A) - Wellbore #1 - Wellbore #1      | 600.00                        | 577.20                     | 2,616.76                      | 2,464.53                       | 17.190            | CC, ES             |
| Magnolia State 2 (P&A) - Wellbore #1 - Wellbore #1      | 700.00                        | 563.00                     | 2,619.26                      | 2,466.83                       | 17.184            | SF                 |

|                                               |                     |                     |                     |                |             |                       |                                   |            |                               |                                |                         |                   |                    |         |
|-----------------------------------------------|---------------------|---------------------|---------------------|----------------|-------------|-----------------------|-----------------------------------|------------|-------------------------------|--------------------------------|-------------------------|-------------------|--------------------|---------|
| Offset Design                                 |                     |                     |                     |                |             |                       |                                   |            |                               |                                |                         |                   | Offset Site Error: | 5.00 ft |
| Survey Program: 111-GYRO-NS-CT, 6243-MWD+HDGM |                     |                     |                     |                |             |                       |                                   |            |                               |                                |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     |                     |                     |                |             |                       |                                   |            |                               |                                |                         |                   |                    |         |
| Semi Major Axis                               |                     |                     |                     |                |             |                       |                                   |            |                               |                                |                         |                   |                    |         |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning            |         |
| 0.00                                          | 0.00                | 0.00                | 0.00                | 0.50           | 5.02        | 66.55                 | 3,106.55                          | 7,162.72   | 7,807.60                      |                                |                         |                   |                    |         |
| 100.00                                        | 100.00              | 28.07               | 28.07               | 0.52           | 5.03        | 66.55                 | 3,106.55                          | 7,162.75   | 7,807.42                      | 7,801.88                       | 5.54                    | 1,408.558         |                    |         |
| 200.00                                        | 200.00              | 94.59               | 94.59               | 0.70           | 5.03        | 66.55                 | 3,106.54                          | 7,163.04   | 7,807.82                      | 7,802.09                       | 5.73                    | 1,362.925         |                    |         |
| 300.00                                        | 300.00              | 221.49              | 221.49              | 0.99           | 5.05        | 66.56                 | 3,106.52                          | 7,163.64   | 7,808.24                      | 7,802.20                       | 6.04                    | 1,292.530         |                    |         |
| 400.00                                        | 400.00              | 282.21              | 282.20              | 1.31           | 5.08        | 66.56                 | 3,106.15                          | 7,164.14   | 7,808.76                      | 7,802.37                       | 6.39                    | 1,222.034         |                    |         |
| 500.00                                        | 500.00              | 601.63              | 601.53              | 1.65           | 5.37        | 66.61                 | 3,099.19                          | 7,164.14   | 7,807.38                      | 7,800.37                       | 7.01                    | 1,113.571         |                    |         |
| 600.00                                        | 600.00              | 670.37              | 670.25              | 1.99           | 5.46        | 66.62                 | 3,097.57                          | 7,163.51   | 7,805.59                      | 7,798.15                       | 7.45                    | 1,048.386         |                    |         |
| 700.00                                        | 700.00              | 792.57              | 792.41              | 2.34           | 5.64        | 66.63                 | 3,094.70                          | 7,162.37   | 7,803.80                      | 7,795.83                       | 7.97                    | 978.559           |                    |         |
| 800.00                                        | 800.00              | 888.48              | 888.29              | 2.69           | 5.80        | 66.64                 | 3,092.55                          | 7,161.33   | 7,801.91                      | 7,793.43                       | 8.49                    | 919.359           |                    |         |
| 900.00                                        | 900.00              | 994.05              | 993.83              | 3.04           | 6.00        | 66.65                 | 3,090.39                          | 7,160.07   | 7,800.01                      | 7,790.97                       | 9.03                    | 863.589           |                    |         |
| 1,000.00                                      | 1,000.00            | 1,135.37            | 1,135.11            | 3.40           | 6.29        | 66.67                 | 3,087.56                          | 7,158.04   | 7,797.94                      | 7,788.27                       | 9.67                    | 806.535           |                    |         |
| 1,100.00                                      | 1,100.00            | 1,304.96            | 1,304.61            | 3.75           | 6.67        | 66.68                 | 3,083.54                          | 7,154.29   | 7,794.93                      | 7,784.54                       | 10.39                   | 749.932           |                    |         |
| 1,200.00                                      | 1,200.00            | 1,453.16            | 1,452.71            | 4.11           | 7.03        | 66.69                 | 3,080.72                          | 7,149.55   | 7,791.24                      | 7,780.14                       | 11.10                   | 702.085           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design      Sec 13-T21S-R27E - Lone Tree Draw 13 State 11H - Wellbore #1 - Wellbore #1 |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |         | Offset Site Error:      5.00 ft |         |
|-----------------------------------------------------------------------------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|---------|---------------------------------|---------|
| Survey Program:      111-GYRO-NS-CT, 6243-MWD+HDGM                                            |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |         | Offset Well Error:      0.50 ft |         |
| Reference                                                                                     |                | Offset         |                | Semi Major Axis |        |                   | Distance               |                 |                  |                    |                   |         |                                 | Warning |
| Measured Depth                                                                                | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor |         |                                 |         |
| (ft)                                                                                          | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft)      | (ft)             | (ft)               | (ft)              |         |                                 |         |
| 1,300.00                                                                                      | 1,300.00       | 1,559.66       | 1,559.11       | 4.46            | 7.30   | 66.70             | 3,078.18               | 7,145.97        | 7,787.20         | 7,775.49           | 11.72             | 664.617 |                                 |         |
| 1,400.00                                                                                      | 1,400.00       | 1,653.29       | 1,652.66       | 4.82            | 7.55   | 66.70             | 3,075.99               | 7,142.76        | 7,783.13         | 7,770.82           | 12.31             | 632.101 |                                 |         |
| 1,500.00                                                                                      | 1,500.00       | 1,732.99       | 1,732.30       | 5.18            | 7.77   | 66.71             | 3,074.29               | 7,140.17        | 7,779.29         | 7,766.41           | 12.88             | 603.998 |                                 |         |
| 1,600.00                                                                                      | 1,600.00       | 1,828.18       | 1,827.42       | 5.53            | 8.03   | 66.71             | 3,072.22               | 7,137.21        | 7,775.58         | 7,762.09           | 13.49             | 576.298 |                                 |         |
| 1,700.00                                                                                      | 1,700.00       | 1,955.61       | 1,954.76       | 5.89            | 8.39   | 66.72             | 3,069.21               | 7,133.47        | 7,772.01         | 7,757.81           | 14.20             | 547.343 |                                 |         |
| 1,800.00                                                                                      | 1,800.00       | 2,140.39       | 2,139.31       | 6.25            | 8.95   | 66.75             | 3,062.57               | 7,126.85        | 7,767.18         | 7,752.10           | 15.08             | 515.068 |                                 |         |
| 1,900.00                                                                                      | 1,900.00       | 2,251.33       | 2,250.07       | 6.61            | 9.29   | 66.76             | 3,058.16               | 7,122.41        | 7,761.93         | 7,746.16           | 15.76             | 492.456 |                                 |         |
| 2,000.00                                                                                      | 2,000.00       | 2,352.43       | 2,351.01       | 6.96            | 9.61   | 66.78             | 3,054.29               | 7,118.30        | 7,756.68         | 7,740.26           | 16.42             | 472.409 |                                 |         |
| 2,100.00                                                                                      | 2,099.99       | 2,470.88       | 2,469.27       | 7.32            | 9.99   | 79.63             | 3,049.90               | 7,113.27        | 7,751.16         | 7,734.02           | 17.13             | 452.456 |                                 |         |
| 2,200.00                                                                                      | 2,199.96       | 2,558.19       | 2,556.44       | 7.68            | 10.28  | 79.72             | 3,046.81               | 7,109.43        | 7,745.25         | 7,727.49           | 17.75             | 436.251 |                                 |         |
| 2,300.00                                                                                      | 2,299.86       | 2,634.61       | 2,632.74       | 8.04            | 10.53  | 79.81             | 3,043.76               | 7,106.40        | 7,739.26         | 7,720.91           | 18.35             | 421.820 |                                 |         |
| 2,400.00                                                                                      | 2,399.68       | 2,764.61       | 2,762.54       | 8.39            | 10.95  | 79.96             | 3,038.39               | 7,101.43        | 7,733.08         | 7,713.97           | 19.11             | 404.762 |                                 |         |
| 2,500.00                                                                                      | 2,499.37       | 2,876.96       | 2,874.69       | 8.75            | 11.33  | 80.10             | 3,034.13               | 7,096.46        | 7,726.14         | 7,706.33           | 19.81             | 389.984 |                                 |         |
| 2,600.00                                                                                      | 2,598.90       | 2,961.15       | 2,958.74       | 9.11            | 11.61  | 80.24             | 3,031.10               | 7,092.70        | 7,718.96         | 7,698.53           | 20.43             | 377.755 |                                 |         |
| 2,700.00                                                                                      | 2,698.26       | 3,040.53       | 3,037.99       | 9.46            | 11.88  | 80.39             | 3,028.07               | 7,089.43        | 7,711.73         | 7,690.69           | 21.04             | 366.466 |                                 |         |
| 2,800.00                                                                                      | 2,797.40       | 3,145.58       | 3,142.89       | 9.82            | 12.24  | 80.58             | 3,024.17               | 7,085.16        | 7,704.33         | 7,682.59           | 21.73             | 354.468 |                                 |         |
| 2,900.00                                                                                      | 2,896.30       | 3,250.35       | 3,247.50       | 10.18           | 12.59  | 80.78             | 3,020.74               | 7,080.58        | 7,696.56         | 7,674.14           | 22.43             | 343.184 |                                 |         |
| 3,000.00                                                                                      | 2,994.93       | 3,341.90       | 3,338.92       | 10.54           | 12.91  | 80.98             | 3,017.68               | 7,076.65        | 7,688.60         | 7,665.52           | 23.08             | 333.119 |                                 |         |
| 3,100.00                                                                                      | 3,093.26       | 3,449.71       | 3,446.56       | 10.90           | 13.28  | 81.22             | 3,014.19               | 7,071.89        | 7,680.33         | 7,656.54           | 23.79             | 322.867 |                                 |         |
| 3,195.07                                                                                      | 3,186.42       | 3,538.48       | 3,535.20       | 11.24           | 13.58  | 81.44             | 3,011.54               | 7,067.87        | 7,672.27         | 7,647.85           | 24.42             | 314.185 |                                 |         |
| 3,200.00                                                                                      | 3,191.25       | 3,543.28       | 3,540.00       | 11.26           | 13.60  | 81.45             | 3,011.40               | 7,067.65        | 7,671.85         | 7,647.39           | 24.45             | 313.737 |                                 |         |
| 3,300.00                                                                                      | 3,289.08       | 3,638.80       | 3,635.37       | 11.62           | 13.93  | 81.60             | 3,008.63               | 7,063.31        | 7,663.33         | 7,638.20           | 25.13             | 304.981 |                                 |         |
| 3,400.00                                                                                      | 3,386.91       | 3,728.96       | 3,725.42       | 11.98           | 14.24  | 81.74             | 3,006.29               | 7,059.17        | 7,654.92         | 7,629.14           | 25.79             | 296.849 |                                 |         |
| 3,500.00                                                                                      | 3,484.74       | 3,816.32       | 3,812.66       | 12.35           | 14.54  | 81.88             | 3,004.08               | 7,055.25        | 7,646.70         | 7,620.26           | 26.44             | 289.200 |                                 |         |
| 3,600.00                                                                                      | 3,582.58       | 3,908.71       | 3,904.93       | 12.72           | 14.86  | 82.03             | 3,002.10               | 7,051.06        | 7,638.63         | 7,611.52           | 27.11             | 281.739 |                                 |         |
| 3,700.00                                                                                      | 3,680.41       | 4,000.13       | 3,996.24       | 13.09           | 15.18  | 82.17             | 3,000.25               | 7,046.93        | 7,630.68         | 7,602.90           | 27.78             | 274.652 |                                 |         |
| 3,800.00                                                                                      | 3,778.24       | 4,089.31       | 4,085.31       | 13.46           | 15.48  | 82.31             | 2,998.25               | 7,043.07        | 7,622.88         | 7,594.43           | 28.45             | 267.946 |                                 |         |
| 3,900.00                                                                                      | 3,876.08       | 4,168.30       | 4,164.21       | 13.83           | 15.76  | 82.43             | 2,996.88               | 7,039.65        | 7,615.31         | 7,586.23           | 29.08             | 261.836 |                                 |         |
| 4,000.00                                                                                      | 3,973.91       | 4,238.91       | 4,234.76       | 14.21           | 15.99  | 82.54             | 2,996.44               | 7,036.52        | 7,608.08         | 7,578.39           | 29.69             | 256.225 |                                 |         |
| 4,100.00                                                                                      | 4,071.74       | 4,302.16       | 4,297.94       | 14.58           | 16.20  | 82.63             | 2,996.72               | 7,033.71        | 7,601.28         | 7,571.01           | 30.28             | 251.040 |                                 |         |
| 4,200.00                                                                                      | 4,169.57       | 4,366.98       | 4,362.70       | 14.96           | 16.42  | 82.71             | 2,997.63               | 7,030.98        | 7,595.05         | 7,564.17           | 30.87             | 246.023 |                                 |         |
| 4,300.00                                                                                      | 4,267.41       | 4,508.38       | 4,503.95       | 15.33           | 16.88  | 82.90             | 3,000.17               | 7,024.90        | 7,589.00         | 7,557.29           | 31.71             | 239.308 |                                 |         |
| 4,400.00                                                                                      | 4,365.24       | 4,603.54       | 4,598.94       | 15.71           | 17.19  | 83.02             | 3,002.34               | 7,019.92        | 7,582.23         | 7,549.83           | 32.41             | 233.974 |                                 |         |
| 4,500.00                                                                                      | 4,463.07       | 4,702.32       | 4,692.40       | 16.09           | 18.91  | 102.47            | 882.92                 | 7,068.63        | 7,559.97         | 7,507.02           | 52.95             | 142.776 |                                 |         |
| 4,600.00                                                                                      | 4,560.90       | 4,869.39       | 4,792.61       | 16.47           | 38.80  | 102.40            | 891.81                 | 7,067.95        | 7,532.68         | 7,479.31           | 53.37             | 141.142 |                                 |         |
| 4,700.00                                                                                      | 4,658.74       | 4,864.21       | 4,792.87       | 16.85           | 38.68  | 102.33            | 900.96                 | 7,067.25        | 7,506.60         | 7,452.82           | 53.78             | 139.572 |                                 |         |
| 4,800.00                                                                                      | 4,756.57       | 4,874.74       | 4,793.16       | 17.23           | 38.57  | 102.26            | 910.40                 | 7,066.54        | 7,481.73         | 7,427.54           | 54.19             | 138.066 |                                 |         |
| 4,900.00                                                                                      | 4,854.40       | 4,843.00       | 4,794.41       | 17.61           | 38.18  | 102.01            | 942.03                 | 7,064.23        | 7,458.17         | 7,403.85           | 54.32             | 137.295 |                                 |         |
| 5,000.00                                                                                      | 4,952.23       | 4,843.00       | 4,794.41       | 17.99           | 38.18  | 102.01            | 942.03                 | 7,064.23        | 7,435.72         | 7,380.88           | 54.84             | 135.601 |                                 |         |
| 5,100.00                                                                                      | 5,050.07       | 4,843.00       | 4,794.41       | 18.37           | 38.18  | 102.01            | 942.03                 | 7,064.23        | 7,414.54         | 7,359.19           | 55.34             | 133.970 |                                 |         |
| 5,200.00                                                                                      | 5,147.90       | 4,843.00       | 4,794.41       | 18.75           | 38.18  | 102.01            | 942.03                 | 7,064.23        | 7,394.66         | 7,338.81           | 55.85             | 132.403 |                                 |         |
| 5,300.00                                                                                      | 5,245.73       | 4,843.00       | 4,794.41       | 19.14           | 38.18  | 102.01            | 942.03                 | 7,064.23        | 7,376.07         | 7,319.72           | 56.35             | 130.898 |                                 |         |
| 5,400.00                                                                                      | 5,343.56       | 4,815.67       | 4,795.61       | 19.52           | 37.85  | 101.81            | 969.27                 | 7,062.37        | 7,358.67         | 7,302.15           | 56.52             | 130.201 |                                 |         |
| 5,500.00                                                                                      | 5,441.40       | 4,806.22       | 4,796.01       | 19.90           | 37.73  | 101.73            | 978.69                 | 7,061.76        | 7,342.61         | 7,285.72           | 56.89             | 129.058 |                                 |         |
| 5,600.00                                                                                      | 5,539.23       | 4,806.85       | 4,796.40       | 20.29           | 37.62  | 101.66            | 988.04                 | 7,061.19        | 7,327.86         | 7,270.59           | 57.26             | 127.965 |                                 |         |
| 5,700.00                                                                                      | 5,637.06       | 4,857.54       | 4,796.78       | 20.67           | 37.51  | 101.59            | 997.32                 | 7,060.64        | 7,314.40         | 7,256.77           | 57.63             | 126.921 |                                 |         |
| 5,800.00                                                                                      | 5,734.90       | 4,878.31       | 4,797.15       | 21.05           | 37.40  | 101.52            | 1,006.53               | 7,060.11        | 7,302.27         | 7,244.28           | 57.99             | 125.925 |                                 |         |
| 5,900.00                                                                                      | 5,832.73       | 4,849.00       | 4,798.26       | 21.44           | 37.04  | 101.30            | 1,035.78               | 7,058.58        | 7,291.52         | 7,233.42           | 58.10             | 125.498 |                                 |         |
| 6,000.00                                                                                      | 5,930.56       | 4,800.00       | 4,798.21       | 21.83           | 22.52  | 101.31            | 1,034.08               | 7,058.67        | 7,281.98         | 7,252.07           | 29.91             | 243.478 |                                 |         |
| 6,100.00                                                                                      | 6,028.39       | 4,861.65       | 4,797.80       | 22.21           | 37.19  | 101.39            | 1,023.15               | 7,059.19        | 7,273.79         | 7,214.64           | 59.15             | 122.962 |                                 |         |
| 6,200.00                                                                                      | 6,126.23       | 4,805.59       | 4,799.80       | 22.60           | 36.53  | 100.96            | 1,079.11               | 7,056.39        | 7,266.93         | 7,207.99           | 58.94             | 123.302 |                                 |         |
| 6,300.00                                                                                      | 6,224.06       | 4,452.77       | 4,801.53       | 22.98           | 35.91  | 100.56            | 1,131.82               | 7,053.54        | 7,261.26         | 7,202.51           | 58.75             | 123.601 |                                 |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 111-GYRO-NS-CT, 6243-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 6,400.00                                      | 6,321.89            | 8,432.15            | 6,802.13            | 23.37           | 35.67       | 100.40                | 1,152.40                          | 7,052.40   | 7,256.84             | 7,197.91              | 58.93                   | 123.135           |                    |         |
| 6,500.00                                      | 6,419.72            | 8,412.36            | 6,802.60            | 23.76           | 35.44       | 100.25                | 1,172.15                          | 7,051.32   | 7,253.74             | 7,194.61              | 59.12                   | 122.690           |                    |         |
| 6,600.00                                      | 6,517.56            | 8,393.35            | 6,802.96            | 24.14           | 35.22       | 100.10                | 1,191.13                          | 7,050.29   | 7,251.95             | 7,192.64              | 59.31                   | 122.269           |                    |         |
| 6,685.07                                      | 6,600.78            | 8,377.77            | 6,803.20            | 24.47           | 35.04       | 99.98                 | 1,206.70                          | 7,049.46   | 7,251.47             | 7,192.00              | 59.47                   | 121.930           |                    |         |
| 6,700.00                                      | 6,615.39            | 8,375.08            | 6,803.23            | 24.53           | 35.01       | 99.96                 | 1,209.38                          | 7,049.32   | 7,251.49             | 7,191.99              | 59.50                   | 121.872           |                    |         |
| 6,800.00                                      | 6,713.22            | 8,359.00            | 6,803.40            | 24.92           | 34.82       | 99.83                 | 1,225.43                          | 7,048.47   | 7,252.35             | 7,192.64              | 59.71                   | 121.466           |                    |         |
| 6,900.00                                      | 6,811.05            | 8,359.00            | 6,803.40            | 25.30           | 34.82       | 99.83                 | 1,225.43                          | 7,048.47   | 7,254.57             | 7,194.48              | 60.09                   | 120.727           |                    |         |
| 7,000.00                                      | 6,908.89            | 8,359.00            | 6,803.40            | 25.69           | 34.82       | 99.83                 | 1,225.43                          | 7,048.47   | 7,258.16             | 7,197.70              | 60.47                   | 120.038           |                    |         |
| 7,100.00                                      | 7,006.72            | 8,359.00            | 6,803.40            | 26.08           | 34.82       | 99.83                 | 1,225.43                          | 7,048.47   | 7,263.13             | 7,202.30              | 60.83                   | 119.398           |                    |         |
| 7,200.00                                      | 7,104.55            | 8,359.00            | 6,803.40            | 26.47           | 34.82       | 99.83                 | 1,225.43                          | 7,048.47   | 7,269.48             | 7,208.29              | 61.19                   | 118.806           |                    |         |
| 7,216.87                                      | 7,121.05            | 8,359.00            | 6,803.40            | 26.53           | 34.82       | 99.83                 | 1,225.43                          | 7,048.47   | 7,270.68             | 7,209.43              | 61.25                   | 118.711           |                    |         |
| 7,300.00                                      | 7,202.57            | 8,324.70            | 6,803.76            | 26.85           | 34.44       | 99.66                 | 1,259.69                          | 7,046.85   | 7,276.78             | 7,215.63              | 61.15                   | 119.000           |                    |         |
| 7,400.00                                      | 7,301.06            | 8,318.88            | 6,803.83            | 27.23           | 34.37       | 99.74                 | 1,265.51                          | 7,046.61   | 7,285.17             | 7,223.75              | 61.42                   | 118.621           |                    |         |
| 7,500.00                                      | 7,399.97            | 8,313.83            | 6,803.89            | 27.61           | 34.31       | 99.84                 | 1,270.55                          | 7,046.41   | 7,294.46             | 7,232.79              | 61.68                   | 118.272           |                    |         |
| 7,600.00                                      | 7,499.23            | 8,309.58            | 6,803.95            | 27.98           | 34.26       | 99.96                 | 1,274.80                          | 7,046.25   | 7,304.66             | 7,242.73              | 61.93                   | 117.952           |                    |         |
| 7,700.00                                      | 7,598.77            | 8,306.14            | 6,803.99            | 28.34           | 34.23       | 100.10                | 1,278.24                          | 7,046.12   | 7,315.75             | 7,253.58              | 62.18                   | 117.661           |                    |         |
| 7,800.00                                      | 7,698.53            | 8,303.50            | 6,804.03            | 28.70           | 34.20       | 100.25                | 1,280.88                          | 7,046.02   | 7,327.74             | 7,265.32              | 62.42                   | 117.399           |                    |         |
| 7,900.00                                      | 7,798.44            | 8,301.68            | 6,804.06            | 29.05           | 34.18       | 100.43                | 1,282.69                          | 7,045.96   | 7,340.60             | 7,277.95              | 62.65                   | 117.165           |                    |         |
| 8,000.00                                      | 7,898.42            | 8,300.69            | 6,804.07            | 29.39           | 34.16       | 100.63                | 1,283.68                          | 7,045.92   | 7,354.33             | 7,291.45              | 62.88                   | 116.957           |                    |         |
| 8,013.58                                      | 7,912.00            | 8,300.62            | 6,804.07            | 29.43           | 34.16       | 87.88                 | 1,283.75                          | 7,045.92   | 7,356.26             | 7,293.35              | 62.91                   | 116.931           |                    |         |
| 8,100.00                                      | 7,998.42            | 8,300.22            | 6,804.08            | 29.73           | 34.16       | 87.87                 | 1,284.15                          | 7,045.91   | 7,369.10             | 7,305.99              | 63.10                   | 116.779           |                    |         |
| 8,200.00                                      | 8,098.42            | 8,299.75            | 6,804.08            | 30.07           | 34.15       | 87.87                 | 1,284.62                          | 7,045.89   | 7,385.18             | 7,321.86              | 63.32                   | 116.639           |                    |         |
| 8,300.00                                      | 8,198.42            | 8,299.29            | 6,804.09            | 30.41           | 34.15       | 87.87                 | 1,285.09                          | 7,045.88   | 7,402.58             | 7,339.06              | 63.52                   | 116.536           |                    |         |
| 8,363.62                                      | 8,262.04            | 8,298.99            | 6,804.09            | 30.62           | 34.15       | 87.86                 | 1,285.39                          | 7,045.87   | 7,414.33             | 7,350.68              | 63.65                   | 116.489           |                    |         |
| 8,400.00                                      | 8,298.40            | 8,298.83            | 6,804.10            | 30.75           | 34.14       | -1.78                 | 1,285.55                          | 7,045.86   | 7,420.15             | 7,356.43              | 63.72                   | 116.458           |                    |         |
| 8,450.00                                      | 8,348.10            | 8,298.64            | 6,804.10            | 30.91           | 34.14       | -1.76                 | 1,285.73                          | 7,045.85   | 7,424.70             | 7,360.90              | 63.80                   | 116.374           |                    |         |
| 8,500.00                                      | 8,397.14            | 8,298.50            | 6,804.10            | 31.07           | 34.14       | -1.76                 | 1,285.87                          | 7,045.85   | 7,425.23             | 7,361.34              | 63.88                   | 116.236           |                    |         |
| 8,550.00                                      | 8,445.15            | 8,298.40            | 6,804.10            | 31.23           | 34.14       | -1.78                 | 1,285.97                          | 7,045.85   | 7,421.73             | 7,357.78              | 63.95                   | 116.046           |                    |         |
| 8,600.00                                      | 8,491.77            | 8,298.35            | 6,804.10            | 31.38           | 34.14       | -1.80                 | 1,286.02                          | 7,045.84   | 7,414.24             | 7,350.22              | 64.02                   | 115.807           |                    |         |
| 8,650.00                                      | 8,536.65            | 8,298.34            | 6,804.10            | 31.52           | 34.14       | -1.84                 | 1,286.03                          | 7,045.84   | 7,402.80             | 7,338.71              | 64.08                   | 115.521           |                    |         |
| 8,700.00                                      | 8,579.43            | 8,298.38            | 6,804.10            | 31.66           | 34.14       | -1.89                 | 1,285.99                          | 7,045.84   | 7,387.46             | 7,323.33              | 64.13                   | 115.190           |                    |         |
| 8,750.00                                      | 8,619.80            | 8,298.47            | 6,804.10            | 31.80           | 34.14       | -1.96                 | 1,285.90                          | 7,045.85   | 7,368.34             | 7,304.16              | 64.17                   | 114.817           |                    |         |
| 8,800.00                                      | 8,657.44            | 8,298.60            | 6,804.10            | 31.93           | 34.14       | -2.05                 | 1,285.77                          | 7,045.85   | 7,345.54             | 7,281.33              | 64.21                   | 114.403           |                    |         |
| 8,850.00                                      | 8,692.08            | 8,298.78            | 6,804.10            | 32.06           | 34.14       | -2.16                 | 1,285.59                          | 7,045.86   | 7,319.20             | 7,254.96              | 64.23                   | 113.950           |                    |         |
| 8,900.00                                      | 8,723.44            | 8,299.01            | 6,804.09            | 32.19           | 34.15       | -2.30                 | 1,285.36                          | 7,045.87   | 7,289.48             | 7,225.24              | 64.25                   | 113.461           |                    |         |
| 8,950.00                                      | 8,751.29            | 8,299.28            | 6,804.09            | 32.34           | 34.15       | -2.48                 | 1,285.09                          | 7,045.88   | 7,256.58             | 7,192.33              | 64.25                   | 112.937           |                    |         |
| 9,000.00                                      | 8,775.42            | 8,299.60            | 6,804.08            | 32.50           | 34.15       | -2.71                 | 1,284.78                          | 7,045.89   | 7,220.71             | 7,156.45              | 64.25                   | 112.381           |                    |         |
| 9,050.00                                      | 8,795.64            | 8,299.95            | 6,804.08            | 32.67           | 34.16       | -3.01                 | 1,284.42                          | 7,045.90   | 7,182.08             | 7,117.84              | 64.24                   | 111.793           |                    |         |
| 9,100.00                                      | 8,811.80            | 8,300.35            | 6,804.07            | 32.87           | 34.16       | -3.41                 | 1,284.02                          | 7,045.91   | 7,140.96             | 7,076.73              | 64.23                   | 111.175           |                    |         |
| 9,150.00                                      | 8,823.77            | 8,300.78            | 6,804.07            | 33.10           | 34.17       | -3.96                 | 1,283.59                          | 7,045.93   | 7,097.61             | 7,033.40              | 64.21                   | 110.530           |                    |         |
| 9,200.00                                      | 8,831.47            | 8,301.25            | 6,804.06            | 33.34           | 34.17       | -4.77                 | 1,283.12                          | 7,045.94   | 7,052.34             | 6,988.14              | 64.19                   | 109.859           |                    |         |
| 9,250.00                                      | 8,834.84            | 8,301.76            | 6,804.05            | 33.60           | 34.18       | -6.03                 | 1,282.62                          | 7,045.96   | 7,005.44             | 6,941.27              | 64.17                   | 109.164           |                    |         |
| 9,263.62                                      | 8,835.00            | 8,301.90            | 6,804.05            | 33.67           | 34.18       | -6.51                 | 1,282.48                          | 7,045.97   | 6,992.43             | 6,928.26              | 64.17                   | 108.968           |                    |         |
| 9,300.00                                      | 8,835.00            | 8,302.28            | 6,804.05            | 33.88           | 34.18       | -6.50                 | 1,282.10                          | 7,045.98   | 6,957.55             | 6,893.40              | 64.15                   | 108.455           |                    |         |
| 9,400.00                                      | 8,835.00            | 8,303.35            | 6,804.03            | 34.53           | 34.19       | -6.47                 | 1,281.03                          | 7,046.02   | 6,861.77             | 6,797.67              | 64.10                   | 107.044           |                    |         |
| 9,500.00                                      | 8,835.00            | 8,304.44            | 6,804.02            | 35.30           | 34.21       | -6.44                 | 1,279.94                          | 7,046.06   | 6,766.11             | 6,702.06              | 64.05                   | 105.632           |                    |         |
| 9,600.00                                      | 8,835.00            | 8,305.55            | 6,804.00            | 36.17           | 34.22       | -6.40                 | 1,278.83                          | 7,046.10   | 6,670.58             | 6,606.57              | 64.01                   | 104.219           |                    |         |
| 9,700.00                                      | 8,835.00            | 8,306.69            | 6,803.99            | 37.13           | 34.23       | -6.37                 | 1,277.69                          | 7,046.14   | 6,575.18             | 6,511.22              | 63.96                   | 102.804           |                    |         |
| 9,800.00                                      | 8,835.00            | 8,307.85            | 6,803.97            | 38.18           | 34.25       | -6.34                 | 1,276.53                          | 7,046.18   | 6,479.92             | 6,416.00              | 63.91                   | 101.388           |                    |         |
| 9,900.00                                      | 8,835.00            | 8,309.04            | 6,803.95            | 39.31           | 34.26       | -6.30                 | 1,275.34                          | 7,046.23   | 6,384.80             | 6,320.93              | 63.87                   | 99.970            |                    |         |
| 10,000.00                                     | 8,835.00            | 8,310.26            | 6,803.94            | 40.51           | 34.27       | -6.27                 | 1,274.12                          | 7,046.27   | 6,289.83             | 6,226.01              | 63.82                   | 98.551            |                    |         |
| 10,100.00                                     | 8,835.00            | 8,311.51            | 6,803.92            | 41.78           | 34.29       | -6.23                 | 1,272.87                          | 7,046.32   | 6,195.02             | 6,131.24              | 63.78                   | 97.132            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 111-GYRO-NS-CT, 6243-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 10,200.00                                     | 8,835.00            | 8,312.78            | 6,803.90            | 43.10           | 34.30       | -6.20                 | 1,271.60                          | 7,046.37   | 6,100.38             | 6,036.64              | 63.74                   | 95.710            |                    |         |
| 10,300.00                                     | 8,835.00            | 8,314.09            | 6,803.89            | 44.49           | 34.32       | -6.16                 | 1,270.30                          | 7,046.42   | 6,005.91             | 5,942.21              | 63.70                   | 94.288            |                    |         |
| 10,400.00                                     | 8,835.00            | 8,315.43            | 6,803.87            | 45.92           | 34.33       | -6.12                 | 1,268.96                          | 7,046.47   | 5,911.62             | 5,847.96              | 63.66                   | 92.865            |                    |         |
| 10,500.00                                     | 8,835.00            | 8,316.80            | 6,803.85            | 47.39           | 34.35       | -6.08                 | 1,267.59                          | 7,046.53   | 5,817.52             | 5,753.90              | 63.62                   | 91.440            |                    |         |
| 10,600.00                                     | 8,835.00            | 8,318.20            | 6,803.84            | 48.91           | 34.36       | -6.04                 | 1,266.19                          | 7,046.58   | 5,723.62             | 5,660.03              | 63.59                   | 90.015            |                    |         |
| 10,700.00                                     | 8,835.00            | 8,319.64            | 6,803.82            | 50.47           | 34.38       | -6.00                 | 1,264.75                          | 7,046.64   | 5,629.93             | 5,566.38              | 63.55                   | 88.588            |                    |         |
| 10,800.00                                     | 8,835.00            | 8,321.11            | 6,803.80            | 52.06           | 34.39       | -5.96                 | 1,263.28                          | 7,046.70   | 5,536.46             | 5,472.94              | 63.52                   | 87.161            |                    |         |
| 10,900.00                                     | 8,835.00            | 8,322.62            | 6,803.78            | 53.68           | 34.41       | -5.91                 | 1,261.77                          | 7,046.76   | 5,443.22             | 5,379.73              | 63.49                   | 85.733            |                    |         |
| 11,000.00                                     | 8,835.00            | 8,324.17            | 6,803.76            | 55.32           | 34.43       | -5.87                 | 1,260.22                          | 7,046.83   | 5,350.22             | 5,286.76              | 63.46                   | 84.304            |                    |         |
| 11,100.00                                     | 8,835.00            | 8,325.77            | 6,803.74            | 57.00           | 34.45       | -5.82                 | 1,258.63                          | 7,046.90   | 5,257.48             | 5,194.04              | 63.44                   | 82.874            |                    |         |
| 11,200.00                                     | 8,835.00            | 8,327.40            | 6,803.72            | 58.70           | 34.47       | -5.78                 | 1,257.00                          | 7,046.97   | 5,165.01             | 5,101.59              | 63.42                   | 81.443            |                    |         |
| 11,300.00                                     | 8,835.00            | 8,329.08            | 6,803.71            | 60.41           | 34.48       | -5.73                 | 1,255.32                          | 7,047.04   | 5,072.82             | 5,009.42              | 63.40                   | 80.012            |                    |         |
| 11,400.00                                     | 8,835.00            | 8,330.80            | 6,803.69            | 62.15           | 34.50       | -5.68                 | 1,253.60                          | 7,047.11   | 4,980.93             | 4,917.55              | 63.39                   | 78.580            |                    |         |
| 11,500.00                                     | 8,835.00            | 8,332.57            | 6,803.67            | 63.91           | 34.52       | -5.63                 | 1,251.83                          | 7,047.19   | 4,889.36             | 4,825.99              | 63.38                   | 77.148            |                    |         |
| 11,600.00                                     | 8,835.00            | 8,334.40            | 6,803.65            | 65.69           | 34.54       | -5.57                 | 1,250.01                          | 7,047.27   | 4,798.13             | 4,734.76              | 63.37                   | 75.715            |                    |         |
| 11,700.00                                     | 8,835.00            | 8,336.27            | 6,803.62            | 67.47           | 34.57       | -5.52                 | 1,248.14                          | 7,047.36   | 4,707.25             | 4,643.88              | 63.37                   | 74.282            |                    |         |
| 11,800.00                                     | 8,835.00            | 8,338.20            | 6,803.60            | 69.28           | 34.59       | -5.47                 | 1,246.21                          | 7,047.45   | 4,616.74             | 4,553.37              | 63.37                   | 72.848            |                    |         |
| 11,900.00                                     | 8,835.00            | 8,339.00            | 6,803.40            | 71.09           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 4,526.72             | 4,463.17              | 63.55                   | 71.232            |                    |         |
| 12,000.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 72.92           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 4,437.02             | 4,373.47              | 63.54                   | 69.825            |                    |         |
| 12,100.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 74.76           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 4,347.76             | 4,284.22              | 63.55                   | 68.418            |                    |         |
| 12,200.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 76.61           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 4,258.99             | 4,195.43              | 63.56                   | 67.010            |                    |         |
| 12,300.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 78.47           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 4,170.72             | 4,107.15              | 63.58                   | 65.602            |                    |         |
| 12,400.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 80.34           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 4,083.00             | 4,019.40              | 63.60                   | 64.193            |                    |         |
| 12,500.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 82.22           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 3,995.85             | 3,932.21              | 63.64                   | 62.786            |                    |         |
| 12,600.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 84.11           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 3,909.32             | 3,845.63              | 63.69                   | 61.378            |                    |         |
| 12,700.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 86.00           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 3,823.45             | 3,759.69              | 63.75                   | 59.972            |                    |         |
| 12,800.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 87.90           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 3,738.27             | 3,674.44              | 63.83                   | 58.567            |                    |         |
| 12,900.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 89.81           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 3,653.85             | 3,589.93              | 63.92                   | 57.164            |                    |         |
| 13,000.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 91.72           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 3,570.24             | 3,506.21              | 64.02                   | 55.764            |                    |         |
| 13,100.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 93.64           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 3,487.48             | 3,423.33              | 64.15                   | 54.367            |                    |         |
| 13,200.00                                     | 8,835.00            | 8,373.08            | 6,803.26            | 95.56           | 34.98       | -4.46                 | 1,211.37                          | 7,049.21   | 3,405.61             | 3,341.24              | 64.37                   | 52.911            |                    |         |
| 13,300.00                                     | 8,835.00            | 8,376.07            | 6,803.22            | 97.49           | 35.02       | -4.37                 | 1,208.39                          | 7,049.37   | 3,324.75             | 3,260.21              | 64.54                   | 51.518            |                    |         |
| 13,400.00                                     | 8,835.00            | 8,379.07            | 6,803.18            | 99.42           | 35.05       | -4.29                 | 1,205.39                          | 7,049.53   | 3,244.96             | 3,180.23              | 64.72                   | 50.135            |                    |         |
| 13,500.00                                     | 8,835.00            | 8,382.09            | 6,803.14            | 101.36          | 35.09       | -4.20                 | 1,202.38                          | 7,049.69   | 3,166.30             | 3,101.37              | 64.93                   | 48.763            |                    |         |
| 13,600.00                                     | 8,835.00            | 8,385.11            | 6,803.09            | 103.30          | 35.12       | -4.11                 | 1,199.36                          | 7,049.85   | 3,088.88             | 3,023.72              | 65.16                   | 47.403            |                    |         |
| 13,700.00                                     | 8,835.00            | 8,388.16            | 6,803.05            | 105.25          | 35.16       | -4.03                 | 1,196.32                          | 7,050.01   | 3,012.79             | 2,947.37              | 65.41                   | 46.057            |                    |         |
| 13,800.00                                     | 8,835.00            | 8,391.22            | 6,803.00            | 107.20          | 35.19       | -3.94                 | 1,193.27                          | 7,050.18   | 2,938.12             | 2,872.43              | 65.69                   | 44.728            |                    |         |
| 13,900.00                                     | 8,835.00            | 8,394.29            | 6,802.95            | 109.15          | 35.23       | -3.85                 | 1,190.20                          | 7,050.34   | 2,864.99             | 2,799.01              | 65.99                   | 43.418            |                    |         |
| 14,000.00                                     | 8,835.00            | 8,397.38            | 6,802.89            | 111.10          | 35.27       | -3.76                 | 1,187.12                          | 7,050.51   | 2,793.52             | 2,727.22              | 66.31                   | 42.129            |                    |         |
| 14,100.00                                     | 8,835.00            | 8,400.48            | 6,802.83            | 113.06          | 35.30       | -3.67                 | 1,184.02                          | 7,050.67   | 2,723.85             | 2,657.19              | 66.66                   | 40.865            |                    |         |
| 14,200.00                                     | 8,835.00            | 8,403.60            | 6,802.78            | 115.03          | 35.34       | -3.58                 | 1,180.91                          | 7,050.84   | 2,656.10             | 2,589.08              | 67.03                   | 39.627            |                    |         |
| 14,300.00                                     | 8,835.00            | 8,406.73            | 6,802.71            | 116.99          | 35.37       | -3.49                 | 1,177.78                          | 7,051.01   | 2,590.44             | 2,523.02              | 67.43                   | 38.419            |                    |         |
| 14,400.00                                     | 8,835.00            | 8,409.87            | 6,802.65            | 118.96          | 35.41       | -3.40                 | 1,174.64                          | 7,051.18   | 2,527.03             | 2,459.18              | 67.85                   | 37.246            |                    |         |
| 14,500.00                                     | 8,835.00            | 8,413.03            | 6,802.58            | 120.93          | 35.45       | -3.31                 | 1,171.48                          | 7,051.35   | 2,466.04             | 2,397.74              | 68.29                   | 36.109            |                    |         |
| 14,600.00                                     | 8,835.00            | 8,416.21            | 6,802.51            | 122.90          | 35.48       | -3.21                 | 1,168.31                          | 7,051.53   | 2,407.64             | 2,338.88              | 68.76                   | 35.013            |                    |         |
| 14,700.00                                     | 8,835.00            | 8,419.40            | 6,802.44            | 124.88          | 35.52       | -3.12                 | 1,165.13                          | 7,051.70   | 2,352.05             | 2,282.79              | 69.26                   | 33.961            |                    |         |
| 14,800.00                                     | 8,835.00            | 8,422.61            | 6,802.36            | 126.86          | 35.56       | -3.03                 | 1,161.93                          | 7,051.87   | 2,299.46             | 2,229.69              | 69.77                   | 32.958            |                    |         |
| 14,900.00                                     | 8,835.00            | 8,425.83            | 6,802.29            | 128.84          | 35.60       | -2.94                 | 1,158.71                          | 7,052.05   | 2,250.07             | 2,179.77              | 70.30                   | 32.005            |                    |         |
| 15,000.00                                     | 8,835.00            | 8,429.07            | 6,802.20            | 130.82          | 35.63       | -2.84                 | 1,155.48                          | 7,052.23   | 2,204.12             | 2,133.26              | 70.86                   | 31.107            |                    |         |
| 15,100.00                                     | 8,835.00            | 8,432.32            | 6,802.12            | 132.80          | 35.67       | -2.75                 | 1,152.23                          | 7,052.41   | 2,161.80             | 2,090.37              | 71.43                   | 30.265            |                    |         |
| 15,200.00                                     | 8,835.00            | 8,435.59            | 6,802.03            | 134.79          | 35.71       | -2.65                 | 1,148.97                          | 7,052.59   | 2,123.35             | 2,051.33              | 72.02                   | 29.481            |                    |         |
| 15,300.00                                     | 8,835.00            | 8,438.88            | 6,801.94            | 136.78          | 35.75       | -2.56                 | 1,145.69                          | 7,052.77   | 2,088.98             | 2,016.34              | 72.64                   | 28.758            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw 13 State 11H - Wellbore #1 - Wellbore #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Site Error:</b> | 5.00 ft |
|-------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 111-GYRO-NS-CT, 6243-MWD+HDGM                                                   |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                       |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                           | Warning |
| Measured Depth (ft)                                                                             | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor         |         |
| 15,400.00                                                                                       | 8,835.00            | 8,442.18            | 6,801.85            | 138.76          | 35.79       | -2.46                 | 1,142.39                          | 7,052.95   | 2,058.88             | 1,985.60              | 73.28                   | 28.095                    |         |
| 15,500.00                                                                                       | 8,835.00            | 8,454.00            | 6,801.50            | 140.76          | 35.92       | -2.12                 | 1,130.59                          | 7,053.61   | 2,033.28             | 1,959.35              | 73.93                   | 27.504                    |         |
| 15,600.00                                                                                       | 8,835.00            | 8,454.00            | 6,801.50            | 142.75          | 35.92       | -2.12                 | 1,130.59                          | 7,053.61   | 2,012.28             | 1,937.63              | 74.65                   | 26.956                    |         |
| 15,700.00                                                                                       | 8,835.00            | 8,454.00            | 6,801.50            | 144.74          | 35.92       | -2.12                 | 1,130.59                          | 7,053.61   | 1,996.07             | 1,920.65              | 75.42                   | 26.465                    |         |
| 15,800.00                                                                                       | 8,835.00            | 8,456.09            | 6,801.43            | 146.74          | 35.95       | -2.06                 | 1,128.51                          | 7,053.72   | 1,984.77             | 1,908.54              | 76.24                   | 26.035                    |         |
| 15,900.00                                                                                       | 8,835.00            | 8,460.59            | 6,801.29            | 148.73          | 36.00       | -1.93                 | 1,124.02                          | 7,053.97   | 1,978.46             | 1,901.37              | 77.09                   | 25.665                    |         |
| 15,975.33                                                                                       | 8,835.00            | 8,463.95            | 6,801.18            | 150.24          | 36.04       | -1.83                 | 1,120.67                          | 7,054.16   | 1,977.03             | 1,899.27              | 77.76                   | 25.423                    | CC      |
| 16,000.00                                                                                       | 8,835.00            | 8,465.04            | 6,801.15            | 150.73          | 36.05       | -1.80                 | 1,119.58                          | 7,054.22   | 1,977.18             | 1,899.19              | 77.99                   | 25.351                    | ES      |
| 16,100.00                                                                                       | 8,835.00            | 8,469.42            | 6,801.00            | 152.73          | 36.10       | -1.68                 | 1,115.20                          | 7,054.46   | 1,980.95             | 1,902.01              | 78.94                   | 25.096                    |         |
| 16,200.00                                                                                       | 8,835.00            | 8,473.75            | 6,800.86            | 154.73          | 36.16       | -1.55                 | 1,110.88                          | 7,054.70   | 1,989.73             | 1,909.82              | 79.91                   | 24.900                    |         |
| 16,300.00                                                                                       | 8,835.00            | 8,478.03            | 6,800.73            | 156.73          | 36.21       | -1.43                 | 1,106.62                          | 7,054.93   | 2,003.46             | 1,922.56              | 80.89                   | 24.766                    |         |
| 16,400.00                                                                                       | 8,835.00            | 8,482.24            | 6,800.59            | 158.74          | 36.26       | -1.30                 | 1,102.41                          | 7,055.15   | 2,022.03             | 1,940.16              | 81.87                   | 24.697                    |         |
| 16,500.00                                                                                       | 8,835.00            | 8,486.41            | 6,800.45            | 160.74          | 36.30       | -1.18                 | 1,098.25                          | 7,055.38   | 2,045.33             | 1,962.50              | 82.83                   | 24.694                    |         |
| 16,600.00                                                                                       | 8,835.00            | 8,490.52            | 6,800.31            | 162.74          | 36.35       | -1.06                 | 1,094.15                          | 7,055.60   | 2,073.17             | 1,989.44              | 83.74                   | 24.758                    |         |
| 16,700.00                                                                                       | 8,835.00            | 8,494.58            | 6,800.18            | 164.75          | 36.40       | -0.95                 | 1,090.10                          | 7,055.81   | 2,105.40             | 2,020.81              | 84.59                   | 24.888                    |         |
| 16,800.00                                                                                       | 8,835.00            | 8,498.59            | 6,800.04            | 166.76          | 36.45       | -0.83                 | 1,086.10                          | 7,056.02   | 2,141.81             | 2,056.42              | 85.38                   | 25.084                    |         |
| 16,900.00                                                                                       | 8,835.00            | 8,502.54            | 6,799.91            | 168.77          | 36.49       | -0.72                 | 1,082.15                          | 7,056.23   | 2,182.18             | 2,096.08              | 86.10                   | 25.343                    |         |
| 17,000.00                                                                                       | 8,835.00            | 8,506.45            | 6,799.77            | 170.77          | 36.54       | -0.60                 | 1,078.25                          | 7,056.43   | 2,226.31             | 2,139.56              | 86.75                   | 25.663                    |         |
| 17,100.00                                                                                       | 8,835.00            | 8,510.31            | 6,799.64            | 172.78          | 36.59       | -0.49                 | 1,074.39                          | 7,056.63   | 2,273.98             | 2,186.66              | 87.32                   | 26.042                    |         |
| 17,200.00                                                                                       | 8,835.00            | 8,514.13            | 6,799.51            | 174.79          | 36.63       | -0.38                 | 1,070.59                          | 7,056.83   | 2,324.96             | 2,237.15              | 87.82                   | 26.475                    |         |
| 17,300.00                                                                                       | 8,835.00            | 8,517.89            | 6,799.38            | 176.81          | 36.68       | -0.27                 | 1,066.83                          | 7,057.02   | 2,379.05             | 2,290.81              | 88.25                   | 26.959                    |         |
| 17,400.00                                                                                       | 8,835.00            | 8,521.61            | 6,799.25            | 178.82          | 36.72       | -0.16                 | 1,063.11                          | 7,057.21   | 2,436.04             | 2,347.43              | 88.61                   | 27.491                    |         |
| 17,500.00                                                                                       | 8,835.00            | 8,525.29            | 6,799.12            | 180.83          | 36.76       | -0.06                 | 1,059.45                          | 7,057.40   | 2,495.73             | 2,406.82              | 88.92                   | 28.068                    |         |
| 17,600.00                                                                                       | 8,835.00            | 8,528.92            | 6,798.99            | 182.84          | 36.81       | 0.05                  | 1,055.82                          | 7,057.58   | 2,557.94             | 2,468.77              | 89.17                   | 28.687                    |         |
| 17,700.00                                                                                       | 8,835.00            | 8,532.51            | 6,798.86            | 184.86          | 36.85       | 0.15                  | 1,052.24                          | 7,057.76   | 2,622.47             | 2,533.10              | 89.37                   | 29.344                    |         |
| 17,800.00                                                                                       | 8,835.00            | 8,536.06            | 6,798.73            | 186.87          | 36.89       | 0.25                  | 1,048.70                          | 7,057.94   | 2,689.17             | 2,599.64              | 89.53                   | 30.036                    |         |
| 17,900.00                                                                                       | 8,835.00            | 8,539.56            | 6,798.61            | 188.89          | 36.93       | 0.35                  | 1,045.20                          | 7,058.11   | 2,757.87             | 2,668.22              | 89.66                   | 30.761                    |         |
| 18,000.00                                                                                       | 8,835.00            | 8,543.03            | 6,798.48            | 190.91          | 36.97       | 0.45                  | 1,041.74                          | 7,058.28   | 2,828.44             | 2,738.70              | 89.75                   | 31.516                    |         |
| 18,100.00                                                                                       | 8,835.00            | 8,546.45            | 6,798.36            | 192.92          | 37.01       | 0.55                  | 1,038.32                          | 7,058.45   | 2,900.74             | 2,810.93              | 89.81                   | 32.299                    |         |
| 18,200.00                                                                                       | 8,835.00            | 8,550.64            | 6,798.20            | 194.94          | 37.06       | 0.67                  | 1,034.14                          | 7,058.66   | 2,974.63             | 2,884.78              | 89.86                   | 33.104                    |         |
| 18,300.00                                                                                       | 8,835.00            | 8,557.57            | 6,797.95            | 196.96          | 37.15       | 0.87                  | 1,027.23                          | 7,059.00   | 3,050.01             | 2,960.10              | 89.91                   | 33.923                    |         |
| 18,400.00                                                                                       | 8,835.00            | 8,565.05            | 6,797.66            | 198.98          | 37.24       | 1.09                  | 1,019.77                          | 7,059.39   | 3,126.75             | 3,036.80              | 89.95                   | 34.759                    |         |
| 18,500.00                                                                                       | 8,835.00            | 8,573.15            | 6,797.35            | 201.00          | 37.33       | 1.32                  | 1,011.68                          | 7,059.83   | 3,204.77             | 3,114.78              | 90.00                   | 35.610                    |         |
| 18,600.00                                                                                       | 8,835.00            | 8,581.96            | 6,797.00            | 203.02          | 37.44       | 1.58                  | 1,002.89                          | 7,060.32   | 3,283.97             | 3,193.93              | 90.04                   | 36.473                    |         |
| 18,700.00                                                                                       | 8,835.00            | 8,591.57            | 6,796.62            | 205.04          | 37.56       | 1.85                  | 993.30                            | 7,060.87   | 3,364.26             | 3,274.17              | 90.09                   | 37.344                    |         |
| 18,800.00                                                                                       | 8,835.00            | 8,602.10            | 6,796.19            | 207.06          | 37.68       | 2.16                  | 982.80                            | 7,061.51   | 3,445.57             | 3,355.42              | 90.15                   | 38.222                    |         |
| 18,900.00                                                                                       | 8,835.00            | 8,613.69            | 6,795.70            | 209.08          | 37.82       | 2.49                  | 971.25                            | 7,062.24   | 3,527.82             | 3,437.60              | 90.22                   | 39.102                    |         |
| 19,000.00                                                                                       | 8,835.00            | 8,626.49            | 6,795.14            | 211.10          | 37.98       | 2.86                  | 958.48                            | 7,063.08   | 3,610.94             | 3,520.63              | 90.32                   | 39.981                    |         |
| 19,100.00                                                                                       | 8,835.00            | 19,100.00           | 6,793.08            | 213.12          | 168.47      | 4.73                  | 893.20                            | 7,067.94   | 3,694.56             | 3,488.19              | 206.37                  | 17.902                    | SF      |
| 19,200.00                                                                                       | 8,835.00            | 8,746.53            | 6,791.76            | 215.15          | 39.45       | 6.28                  | 838.85                            | 7,072.11   | 3,779.37             | 3,687.15              | 92.22                   | 40.983                    |         |
| 19,308.27                                                                                       | 8,835.00            | 8,752.44            | 6,791.71            | 217.34          | 39.53       | 6.45                  | 832.95                            | 7,072.58   | 3,871.70             | 3,779.46              | 92.24                   | 41.975                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                |                |                |                 |        |                   |                              |              |                 |                  |                    |                   | Sec 13-T21S-R27E - Lone Tree Draw 13 State 15H - Original Hole - Actuals |         | Offset Site Error: 5.00 ft |  |
|---------------------------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------------|--------------|-----------------|------------------|--------------------|-------------------|--------------------------------------------------------------------------|---------|----------------------------|--|
| Survey Program: 106-MWD+IGRF, 2746-MWD+IGRF |                |                |                |                 |        |                   |                              |              |                 |                  |                    |                   | Offset Well Error: 0.00 ft                                               |         |                            |  |
| Reference                                   |                | Offset         |                | Semi Major Axis |        |                   | Distance                     |              |                 |                  |                    |                   |                                                                          | Warning |                            |  |
| Measured Depth                              | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre +N/-S | Centre +E/-W | Between Centres | Between Ellipses | Minimum Separation | Separation Factor |                                                                          |         |                            |  |
| (ft)                                        | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | (ft)                         | (ft)         | (ft)            | (ft)             | (ft)               |                   |                                                                          |         |                            |  |
| 0.00                                        | 0.00           | 0.00           | 0.00           | 0.50            | 5.00   | 65.80             | 2,649.20                     | 5,895.07     | 6,463.22        |                  |                    |                   |                                                                          |         |                            |  |
| 100.00                                      | 100.00         | 50.31          | 50.31          | 0.52            | 5.00   | 65.80             | 2,649.04                     | 5,895.12     | 6,462.96        | 6,457.44         | 5.52               | 1,171.200         |                                                                          |         |                            |  |
| 200.00                                      | 200.00         | 323.76         | 323.69         | 0.70            | 5.08   | 65.79             | 2,648.06                     | 5,890.48     | 6,460.82        | 6,455.04         | 5.79               | 1,116.780         |                                                                          |         |                            |  |
| 300.00                                      | 300.00         | 390.22         | 390.10         | 0.99            | 5.13   | 65.78             | 2,648.84                     | 5,888.28     | 6,458.29        | 6,452.17         | 6.12               | 1,055.771         |                                                                          |         |                            |  |
| 400.00                                      | 400.00         | 456.47         | 456.33         | 1.31            | 5.19   | 65.77             | 2,649.33                     | 5,886.64     | 6,456.32        | 6,449.82         | 6.50               | 993.809           |                                                                          |         |                            |  |
| 500.00                                      | 500.00         | 538.19         | 538.03         | 1.65            | 5.28   | 65.76             | 2,649.68                     | 5,885.07     | 6,454.73        | 6,447.82         | 6.92               | 932.933           |                                                                          |         |                            |  |
| 600.00                                      | 600.00         | 608.03         | 607.86         | 1.99            | 5.36   | 65.75             | 2,650.16                     | 5,883.89     | 6,453.49        | 6,446.14         | 7.35               | 878.303           |                                                                          |         |                            |  |
| 700.00                                      | 700.00         | 687.44         | 687.26         | 2.34            | 5.47   | 65.74             | 2,650.92                     | 5,882.88     | 6,452.71        | 6,444.91         | 7.80               | 826.813           |                                                                          |         |                            |  |
| 800.00                                      | 800.00         | 790.97         | 790.79         | 2.69            | 5.63   | 65.73             | 2,651.95                     | 5,881.67     | 6,452.06        | 6,443.75         | 8.31               | 775.995           |                                                                          |         |                            |  |
| 900.00                                      | 900.00         | 935.18         | 934.98         | 3.04            | 5.88   | 65.72             | 2,652.75                     | 5,879.64     | 6,451.00        | 6,442.08         | 8.92               | 723.103           |                                                                          |         |                            |  |
| 1,000.00                                    | 1,000.00       | 1,014.95       | 1,014.73       | 3.40            | 6.04   | 65.71             | 2,653.11                     | 5,878.38     | 6,449.75        | 6,440.32         | 9.43               | 683.909           |                                                                          |         |                            |  |
| 1,100.00                                    | 1,100.00       | 1,070.71       | 1,070.49       | 3.75            | 6.15   | 65.70             | 2,653.45                     | 5,877.76     | 6,449.00        | 6,439.10         | 9.90               | 651.493           |                                                                          |         |                            |  |
| 1,166.58                                    | 1,166.58       | 1,111.00       | 1,110.78       | 3.99            | 6.24   | 65.70             | 2,653.71                     | 5,877.57     | 6,448.88        | 6,438.66         | 10.22              | 631.031           |                                                                          |         |                            |  |
| 1,200.00                                    | 1,200.00       | 1,127.60       | 1,127.38       | 4.11            | 6.27   | 65.70             | 2,653.83                     | 5,877.55     | 6,448.93        | 6,438.56         | 10.37              | 621.704           |                                                                          |         |                            |  |
| 1,300.00                                    | 1,300.00       | 1,189.27       | 1,189.04       | 4.46            | 6.40   | 65.70             | 2,654.43                     | 5,877.66     | 6,449.49        | 6,438.63         | 10.86              | 593.877           |                                                                          |         |                            |  |
| 1,400.00                                    | 1,400.00       | 1,259.22       | 1,258.99       | 4.82            | 6.55   | 65.69             | 2,655.26                     | 5,878.14     | 6,450.60        | 6,439.23         | 11.37              | 567.439           |                                                                          |         |                            |  |
| 1,500.00                                    | 1,500.00       | 1,390.59       | 1,390.35       | 5.18            | 6.85   | 65.69             | 2,656.31                     | 5,879.50     | 6,451.93        | 6,439.91         | 12.02              | 536.624           |                                                                          |         |                            |  |
| 1,600.00                                    | 1,600.00       | 1,476.80       | 1,476.55       | 5.53            | 7.06   | 65.69             | 2,656.62                     | 5,880.23     | 6,452.85        | 6,440.27         | 12.58              | 512.793           |                                                                          |         |                            |  |
| 1,700.00                                    | 1,700.00       | 1,594.05       | 1,593.80       | 5.89            | 7.34   | 65.69             | 2,656.62                     | 5,881.45     | 6,453.81        | 6,440.58         | 13.23              | 487.922           |                                                                          |         |                            |  |
| 1,800.00                                    | 1,800.00       | 1,715.24       | 1,714.98       | 6.25            | 7.65   | 65.70             | 2,656.26                     | 5,882.48     | 6,454.47        | 6,440.57         | 13.89              | 464.562           |                                                                          |         |                            |  |
| 1,900.00                                    | 1,900.00       | 1,840.59       | 1,840.33       | 6.61            | 7.98   | 65.70             | 2,656.35                     | 5,882.75     | 6,454.68        | 6,440.10         | 14.58              | 442.557           |                                                                          |         |                            |  |
| 2,000.00                                    | 2,000.00       | 1,927.35       | 1,927.09       | 6.96            | 8.22   | 65.70             | 2,656.15                     | 5,882.94     | 6,454.79        | 6,439.61         | 15.18              | 425.248           |                                                                          |         |                            |  |
| 2,100.00                                    | 2,099.99       | 2,022.00       | 2,021.74       | 7.32            | 8.48   | 78.48             | 2,656.50                     | 5,883.15     | 6,454.98        | 6,439.18         | 15.80              | 408.520           |                                                                          |         |                            |  |
| 2,200.00                                    | 2,199.96       | 2,177.12       | 2,176.85       | 7.68            | 8.93   | 78.52             | 2,656.98                     | 5,882.87     | 6,454.44        | 6,437.84         | 16.60              | 388.726           |                                                                          |         |                            |  |
| 2,300.00                                    | 2,299.86       | 2,280.36       | 2,280.10       | 8.04            | 9.23   | 78.57             | 2,657.08                     | 5,882.10     | 6,452.92        | 6,435.66         | 17.26              | 373.819           |                                                                          |         |                            |  |
| 2,400.00                                    | 2,399.68       | 2,356.04       | 2,355.77       | 8.39            | 9.45   | 78.63             | 2,656.89                     | 5,881.89     | 6,451.36        | 6,433.52         | 17.84              | 361.629           |                                                                          |         |                            |  |
| 2,500.00                                    | 2,499.37       | 2,458.35       | 2,458.08       | 8.75            | 9.76   | 78.71             | 2,656.80                     | 5,881.82     | 6,449.72        | 6,431.22         | 18.50              | 348.686           |                                                                          |         |                            |  |
| 2,600.00                                    | 2,598.90       | 2,563.07       | 2,562.80       | 9.11            | 10.07  | 78.82             | 2,656.95                     | 5,881.19     | 6,447.34        | 6,428.17         | 19.17              | 336.334           |                                                                          |         |                            |  |
| 2,700.00                                    | 2,698.26       | 2,624.53       | 2,624.26       | 9.46            | 10.26  | 78.90             | 2,657.13                     | 5,881.11     | 6,445.13        | 6,425.42         | 19.71              | 326.936           |                                                                          |         |                            |  |
| 2,800.00                                    | 2,797.40       | 2,743.69       | 2,743.42       | 9.82            | 10.45  | 79.06             | 2,657.23                     | 5,881.26     | 6,442.77        | 6,422.51         | 20.26              | 317.998           |                                                                          |         |                            |  |
| 2,900.00                                    | 2,896.30       | 2,808.21       | 2,807.94       | 10.18           | 10.46  | 79.17             | 2,657.32                     | 5,881.25     | 6,440.06        | 6,419.44         | 20.63              | 312.184           |                                                                          |         |                            |  |
| 3,000.00                                    | 2,994.93       | 2,872.00       | 2,871.72       | 10.54           | 10.47  | 79.27             | 2,658.49                     | 5,881.55     | 6,437.97        | 6,416.97         | 21.00              | 306.607           |                                                                          |         |                            |  |
| 3,100.00                                    | 3,093.26       | 2,872.00       | 2,871.72       | 10.90           | 10.47  | 79.29             | 2,658.49                     | 5,881.55     | 6,436.37        | 6,415.01         | 21.35              | 301.431           |                                                                          |         |                            |  |
| 3,195.07                                    | 3,186.42       | 2,934.39       | 2,934.06       | 11.24           | 10.49  | 79.39             | 2,660.79                     | 5,882.21     | 6,435.29        | 6,413.58         | 21.71              | 296.396           |                                                                          |         |                            |  |
| 3,200.00                                    | 3,191.25       | 2,936.52       | 2,936.19       | 11.26           | 10.49  | 79.39             | 2,660.89                     | 5,882.24     | 6,435.26        | 6,413.53         | 21.73              | 296.146           |                                                                          |         |                            |  |
| 3,276.12                                    | 3,265.71       | 2,966.00       | 2,965.63       | 11.53           | 10.50  | 79.44             | 2,662.37                     | 5,882.69     | 6,434.96        | 6,412.95         | 22.01              | 292.353           |                                                                          |         |                            |  |
| 3,300.00                                    | 3,289.08       | 2,966.00       | 2,965.63       | 11.62           | 10.50  | 79.44             | 2,662.37                     | 5,882.69     | 6,435.00        | 6,412.91         | 22.10              | 291.240           |                                                                          |         |                            |  |
| 3,400.00                                    | 3,386.91       | 3,031.44       | 3,030.93       | 11.98           | 10.52  | 79.53             | 2,666.40                     | 5,883.94     | 6,435.49        | 6,413.01         | 22.48              | 286.228           |                                                                          |         |                            |  |
| 3,500.00                                    | 3,484.74       | 3,097.61       | 3,096.89       | 12.35           | 10.55  | 79.61             | 2,671.32                     | 5,885.47     | 6,436.75        | 6,413.87         | 22.88              | 281.342           |                                                                          |         |                            |  |
| 3,600.00                                    | 3,582.58       | 3,191.34       | 3,190.32       | 12.72           | 10.61  | 79.73             | 2,678.70                     | 5,887.67     | 6,438.29        | 6,414.99         | 23.30              | 276.293           |                                                                          |         |                            |  |
| 3,700.00                                    | 3,680.41       | 3,298.83       | 3,297.43       | 13.09           | 10.69  | 79.86             | 2,687.33                     | 5,890.09     | 6,439.83        | 6,416.08         | 23.75              | 271.128           |                                                                          |         |                            |  |
| 3,800.00                                    | 3,778.24       | 3,415.41       | 3,413.64       | 13.46           | 10.79  | 80.01             | 2,696.29                     | 5,892.61     | 6,441.19        | 6,416.96         | 24.23              | 265.873           |                                                                          |         |                            |  |
| 3,900.00                                    | 3,876.08       | 3,474.17       | 3,472.21       | 13.83           | 10.85  | 80.08             | 2,700.86                     | 5,893.87     | 6,442.66        | 6,418.01         | 24.65              | 261.349           |                                                                          |         |                            |  |
| 4,000.00                                    | 3,973.91       | 3,531.00       | 3,528.76       | 14.21           | 10.91  | 80.15             | 2,706.22                     | 5,895.31     | 6,444.98        | 6,419.91         | 25.08              | 257.002           |                                                                          |         |                            |  |
| 4,100.00                                    | 4,071.74       | 3,562.16       | 3,559.74       | 14.58           | 10.95  | 80.18             | 2,709.51                     | 5,896.24     | 6,448.13        | 6,422.66         | 25.48              | 253.101           |                                                                          |         |                            |  |
| 4,200.00                                    | 4,169.57       | 3,625.00       | 3,622.12       | 14.96           | 11.03  | 80.25             | 2,716.70                     | 5,898.57     | 6,452.30        | 6,426.38         | 25.92              | 248.944           |                                                                          |         |                            |  |
| 4,300.00                                    | 4,267.41       | 3,683.97       | 3,680.61       | 15.33           | 11.11  | 80.30             | 2,723.80                     | 5,900.99     | 6,457.06        | 6,430.69         | 26.36              | 244.922           |                                                                          |         |                            |  |
| 4,400.00                                    | 4,365.24       | 3,823.64       | 3,819.13       | 15.71           | 11.32  | 80.43             | 2,740.86                     | 5,906.12     | 6,461.68        | 6,434.73         | 26.95              | 239.761           |                                                                          |         |                            |  |
| 4,500.00                                    | 4,463.07       | 3,946.68       | 3,941.23       | 16.09           | 11.52  | 80.55             | 2,755.67                     | 5,909.49     | 6,465.28        | 6,437.75         | 27.53              | 234.824           |                                                                          |         |                            |  |
| 4,600.00                                    | 4,560.90       | 4,002.00       | 3,996.05       | 16.47           | 11.62  | 80.59             | 2,762.92                     | 5,911.16     | 6,469.59        | 6,441.59         | 28.00              | 231.094           |                                                                          |         |                            |  |
| 4,700.00                                    | 4,658.74       | 4,218.02       | 4,210.24       | 16.85           | 12.05  | 80.77             | 2,790.56                     | 5,915.52     | 6,472.50        | 6,443.69         | 28.81              | 224.660           |                                                                          |         |                            |  |
| 4,800.00                                    | 4,756.57       | 4,258.17       | 4,250.05       | 17.23           | 12.14  | 80.81             | 2,795.78                     | 5,916.26     | 6,475.77        | 6,446.51         | 29.26              | 221.309           |                                                                          |         |                            |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|---------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 106-MWD+IGRF, 2746-MWD+IGRF |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.00 ft |
| Reference                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 4,900.00                                    | 4,854.40            | 4,900.00            | 4,343.15            | 17.61           | 13.60       | 80.88                 | 2,808.41                          | 5,918.45   | 6,479.65             | 6,448.62              | 31.03                   | 208.836           |                    |         |
| 5,000.00                                    | 4,952.23            | 4,421.97            | 4,412.34            | 17.99           | 12.51       | 80.94                 | 2,817.61                          | 5,920.09   | 6,483.55             | 6,453.18              | 30.37                   | 213.487           |                    |         |
| 5,100.00                                    | 5,050.07            | 4,472.00            | 4,461.89            | 18.37           | 12.63       | 80.98                 | 2,824.27                          | 5,921.79   | 6,488.32             | 6,457.46              | 30.85                   | 210.308           |                    |         |
| 5,200.00                                    | 5,147.90            | 4,536.74            | 4,526.00            | 18.75           | 12.79       | 81.03                 | 2,832.97                          | 5,924.40   | 6,493.77             | 6,462.39              | 31.38                   | 206.972           |                    |         |
| 5,300.00                                    | 5,245.73            | 5,300.00            | 4,644.39            | 19.14           | 14.76       | 81.14                 | 2,848.74                          | 5,929.18   | 6,499.16             | 6,465.54              | 33.62                   | 193.336           |                    |         |
| 5,400.00                                    | 5,343.56            | 9,608.44            | 7,429.60            | 19.52           | 45.82       | 106.21                | 598.39                            | 5,996.23   | 6,488.48             | 6,426.05              | 62.43                   | 103.935           |                    |         |
| 5,500.00                                    | 5,441.40            | 5,500.00            | 7,428.24            | 19.90           | 24.91       | 105.80                | 643.44                            | 5,996.40   | 6,461.10             | 6,418.26              | 42.84                   | 150.824           |                    |         |
| 5,600.00                                    | 5,539.23            | 9,568.93            | 7,428.51            | 20.29           | 45.14       | 105.85                | 637.89                            | 5,996.41   | 6,435.12             | 6,372.13              | 62.99                   | 102.159           |                    |         |
| 5,700.00                                    | 5,637.06            | 9,524.32            | 7,427.11            | 20.67           | 44.37       | 105.45                | 682.48                            | 5,996.53   | 6,410.48             | 6,347.63              | 62.85                   | 101.989           |                    |         |
| 5,800.00                                    | 5,734.90            | 9,484.77            | 7,425.59            | 21.05           | 43.69       | 105.09                | 722.00                            | 5,996.55   | 6,387.21             | 6,324.42              | 62.79                   | 101.724           |                    |         |
| 5,900.00                                    | 5,832.73            | 9,466.54            | 7,424.86            | 21.44           | 43.38       | 104.92                | 740.22                            | 5,996.53   | 6,365.35             | 6,302.28              | 63.07                   | 100.929           |                    |         |
| 6,000.00                                    | 5,930.56            | 9,447.82            | 7,424.14            | 21.83           | 43.07       | 104.75                | 758.92                            | 5,996.50   | 6,344.94             | 6,281.62              | 63.33                   | 100.193           |                    |         |
| 6,100.00                                    | 6,028.39            | 9,428.59            | 7,423.45            | 22.21           | 42.74       | 104.58                | 778.14                            | 5,996.45   | 6,326.00             | 6,262.43              | 63.57                   | 99.514            |                    |         |
| 6,200.00                                    | 6,126.23            | 9,408.83            | 7,422.79            | 22.60           | 42.40       | 104.40                | 797.89                            | 5,996.37   | 6,308.54             | 6,244.75              | 63.79                   | 98.894            |                    |         |
| 6,300.00                                    | 6,224.06            | 9,387.77            | 7,422.13            | 22.98           | 42.05       | 104.21                | 818.94                            | 5,996.27   | 6,292.56             | 6,228.58              | 63.98                   | 98.350            |                    |         |
| 6,400.00                                    | 6,321.89            | 9,362.84            | 7,421.37            | 23.37           | 41.63       | 103.98                | 843.85                            | 5,996.13   | 6,278.07             | 6,213.97              | 64.10                   | 97.943            |                    |         |
| 6,500.00                                    | 6,419.72            | 9,337.90            | 7,420.61            | 23.76           | 41.21       | 103.76                | 868.79                            | 5,995.95   | 6,265.08             | 6,200.87              | 64.21                   | 97.578            |                    |         |
| 6,600.00                                    | 6,517.56            | 6,600.00            | 7,417.89            | 24.14           | 18.96       | 103.03                | 948.94                            | 5,994.92   | 6,253.47             | 6,228.14              | 25.32                   | 246.948           |                    |         |
| 6,700.00                                    | 6,615.39            | 9,204.00            | 7,415.89            | 24.53           | 38.97       | 102.54                | 1,002.58                          | 5,994.01   | 6,243.46             | 6,180.46              | 63.00                   | 99.099            |                    |         |
| 6,800.00                                    | 6,713.22            | 9,204.00            | 7,415.89            | 24.92           | 38.97       | 102.54                | 1,002.58                          | 5,994.01   | 6,234.81             | 6,171.33              | 63.48                   | 98.211            |                    |         |
| 6,900.00                                    | 6,811.05            | 9,182.33            | 7,415.03            | 25.30           | 38.61       | 102.34                | 1,024.23                          | 5,993.52   | 6,227.68             | 6,164.07              | 63.60                   | 97.915            |                    |         |
| 7,000.00                                    | 6,908.89            | 9,174.05            | 7,414.75            | 25.69           | 38.47       | 102.27                | 1,032.50                          | 5,993.35   | 6,222.15             | 6,158.23              | 63.93                   | 97.333            |                    |         |
| 7,100.00                                    | 7,006.72            | 9,165.44            | 7,414.49            | 26.08           | 38.33       | 102.19                | 1,041.11                          | 5,993.18   | 6,218.21             | 6,153.97              | 64.23                   | 96.807            |                    |         |
| 7,200.00                                    | 7,104.55            | 9,156.49            | 7,414.25            | 26.47           | 38.19       | 102.11                | 1,050.05                          | 5,993.01   | 6,215.85             | 6,151.32              | 64.52                   | 96.338            |                    |         |
| 7,216.87                                    | 7,121.05            | 9,154.95            | 7,414.21            | 26.53           | 38.16       | 102.09                | 1,051.60                          | 5,992.98   | 6,215.60             | 6,151.03              | 64.57                   | 96.264            |                    |         |
| 7,300.00                                    | 7,202.57            | 9,147.63            | 7,414.05            | 26.85           | 38.04       | 102.02                | 1,058.91                          | 5,992.86   | 6,214.88             | 6,150.08              | 64.80                   | 95.914            |                    |         |
| 7,342.30                                    | 7,244.17            | 9,144.17            | 7,413.98            | 27.01           | 37.98       | 101.98                | 1,062.38                          | 5,992.80   | 6,214.78             | 6,149.87              | 64.91                   | 95.742            |                    |         |
| 7,400.00                                    | 7,301.06            | 9,139.73            | 7,413.89            | 27.23           | 37.91       | 101.95                | 1,066.81                          | 5,992.73   | 6,214.96             | 6,149.89              | 65.07                   | 95.512            |                    |         |
| 7,500.00                                    | 7,399.97            | 9,132.87            | 7,413.78            | 27.61           | 37.80       | 101.90                | 1,073.67                          | 5,992.62   | 6,216.09             | 6,150.75              | 65.34                   | 95.132            |                    |         |
| 7,600.00                                    | 7,499.23            | 9,127.12            | 7,413.69            | 27.98           | 37.70       | 101.88                | 1,079.42                          | 5,992.54   | 6,218.28             | 6,152.66              | 65.61                   | 94.772            |                    |         |
| 7,700.00                                    | 7,598.77            | 9,110.00            | 7,413.53            | 28.34           | 37.42       | 101.77                | 1,096.53                          | 5,992.32   | 6,221.55             | 6,155.87              | 65.68                   | 94.724            |                    |         |
| 7,800.00                                    | 7,698.53            | 9,110.00            | 7,413.53            | 28.70           | 37.42       | 101.83                | 1,096.53                          | 5,992.32   | 6,225.85             | 6,159.84              | 66.01                   | 94.320            |                    |         |
| 7,900.00                                    | 7,798.44            | 9,110.00            | 7,413.53            | 29.05           | 37.42       | 101.91                | 1,096.53                          | 5,992.32   | 6,231.21             | 6,164.90              | 66.32                   | 93.963            |                    |         |
| 8,000.00                                    | 7,898.42            | 9,110.00            | 7,413.53            | 29.39           | 37.42       | 102.01                | 1,096.53                          | 5,992.32   | 6,237.64             | 6,171.03              | 66.60                   | 93.652            |                    |         |
| 8,013.58                                    | 7,912.00            | 9,110.00            | 7,413.53            | 29.43           | 37.42       | 89.24                 | 1,096.53                          | 5,992.32   | 6,238.59             | 6,171.95              | 66.64                   | 93.614            |                    |         |
| 8,100.00                                    | 7,998.42            | 9,110.00            | 7,413.53            | 29.73           | 37.42       | 89.24                 | 1,096.53                          | 5,992.32   | 6,245.32             | 6,178.44              | 66.88                   | 93.386            |                    |         |
| 8,200.00                                    | 8,098.42            | 9,110.00            | 7,413.53            | 30.07           | 37.42       | 89.24                 | 1,096.53                          | 5,992.32   | 6,254.58             | 6,187.45              | 67.14                   | 93.163            |                    |         |
| 8,300.00                                    | 8,198.42            | 9,110.00            | 7,413.53            | 30.41           | 37.42       | 89.24                 | 1,096.53                          | 5,992.32   | 6,265.43             | 6,198.05              | 67.38                   | 92.983            |                    |         |
| 8,363.62                                    | 8,262.04            | 9,110.00            | 7,413.53            | 30.62           | 37.42       | 89.24                 | 1,096.53                          | 5,992.32   | 6,273.15             | 6,205.62              | 67.53                   | 92.891            |                    |         |
| 8,400.00                                    | 8,298.40            | 9,119.33            | 7,413.61            | 30.75           | 37.58       | -0.33                 | 1,087.20                          | 5,992.44   | 6,276.70             | 6,208.93              | 67.76                   | 92.628            |                    |         |
| 8,450.00                                    | 8,348.10            | 9,119.69            | 7,413.61            | 30.91           | 37.58       | -0.33                 | 1,086.84                          | 5,992.44   | 6,278.16             | 6,210.29              | 67.87                   | 92.504            |                    |         |
| 8,500.00                                    | 8,397.14            | 9,120.09            | 7,413.61            | 31.07           | 37.59       | -0.32                 | 1,086.45                          | 5,992.45   | 6,275.66             | 6,207.69              | 67.97                   | 92.330            |                    |         |
| 8,550.00                                    | 8,445.15            | 9,120.50            | 7,413.62            | 31.23           | 37.60       | -0.32                 | 1,086.03                          | 5,992.45   | 6,269.22             | 6,201.15              | 68.06                   | 92.109            |                    |         |
| 8,600.00                                    | 8,491.77            | 9,120.94            | 7,413.62            | 31.38           | 37.60       | -0.33                 | 1,085.59                          | 5,992.46   | 6,258.86             | 6,190.71              | 68.15                   | 91.842            |                    |         |
| 8,650.00                                    | 8,536.65            | 9,121.41            | 7,413.63            | 31.52           | 37.61       | -0.33                 | 1,085.13                          | 5,992.46   | 6,244.65             | 6,176.42              | 68.22                   | 91.532            |                    |         |
| 8,700.00                                    | 8,579.43            | 9,121.89            | 7,413.63            | 31.66           | 37.62       | -0.34                 | 1,084.65                          | 5,992.47   | 6,226.67             | 6,158.38              | 68.29                   | 91.181            |                    |         |
| 8,750.00                                    | 8,619.80            | 9,122.38            | 7,413.64            | 31.80           | 37.63       | -0.35                 | 1,084.15                          | 5,992.48   | 6,205.02             | 6,136.68              | 68.34                   | 90.792            |                    |         |
| 8,800.00                                    | 8,657.44            | 9,122.89            | 7,413.64            | 31.93           | 37.63       | -0.36                 | 1,083.64                          | 5,992.48   | 6,179.84             | 6,111.45              | 68.39                   | 90.365            |                    |         |
| 8,850.00                                    | 8,692.08            | 9,123.41            | 7,413.65            | 32.06           | 37.64       | -0.37                 | 1,083.13                          | 5,992.49   | 6,151.27             | 6,082.84              | 68.42                   | 89.903            |                    |         |
| 8,900.00                                    | 8,723.44            | 9,123.92            | 7,413.66            | 32.19           | 37.65       | -0.40                 | 1,082.61                          | 5,992.50   | 6,119.48             | 6,051.03              | 68.44                   | 89.407            |                    |         |
| 8,950.00                                    | 8,751.29            | 9,124.44            | 7,413.66            | 32.34           | 37.66       | -0.42                 | 1,082.10                          | 5,992.50   | 6,084.66             | 6,016.20              | 68.46                   | 88.880            |                    |         |
| 9,000.00                                    | 8,775.42            | 9,124.95            | 7,413.67            | 32.50           | 37.67       | -0.46                 | 1,081.59                          | 5,992.51   | 6,047.04             | 5,978.58              | 68.46                   | 88.324            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                |                |                |                 |        |                   |                              |                              |                 |                  |                    |                   | Sec 13-T21S-R27E - Lone Tree Draw 13 State 15H - Original Hole - Actuals |         | Offset Site Error: 5.00 ft |  |
|---------------------------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------------|------------------------------|-----------------|------------------|--------------------|-------------------|--------------------------------------------------------------------------|---------|----------------------------|--|
| Survey Program: 106-MWD+IGRF, 2746-MWD+IGRF |                |                |                |                 |        |                   |                              |                              |                 |                  |                    |                   | Offset Well Error: 0.00 ft                                               |         |                            |  |
| Reference                                   |                | Offset         |                | Semi Major Axis |        |                   | Distance                     |                              |                 |                  |                    |                   |                                                                          | Warning |                            |  |
| Measured Depth                              | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre +N/-S | Offset Wellbore Centre +E/-W | Between Centres | Between Ellipses | Minimum Separation | Separation Factor |                                                                          |         |                            |  |
| (ft)                                        | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | (ft)                         | (ft)                         | (ft)            | (ft)             | (ft)               |                   |                                                                          |         |                            |  |
| 9,050.00                                    | 8,795.64       | 9,125.44       | 7,413.67       | 32.67           | 37.68  | -0.51             | 1,081.10                     | 5,992.52                     | 6,006.85        | 5,938.39         | 68.46              | 87.740            |                                                                          |         |                            |  |
| 9,100.00                                    | 8,811.80       | 9,125.91       | 7,413.68       | 32.87           | 37.68  | -0.58             | 1,080.62                     | 5,992.52                     | 5,964.34        | 5,895.89         | 68.45              | 87.129            |                                                                          |         |                            |  |
| 9,150.00                                    | 8,823.77       | 9,126.36       | 7,413.69       | 33.10           | 37.69  | -0.68             | 1,080.18                     | 5,992.53                     | 5,919.80        | 5,851.36         | 68.44              | 86.495            |                                                                          |         |                            |  |
| 9,200.00                                    | 8,831.47       | 9,126.77       | 7,413.69       | 33.34           | 37.70  | -0.83             | 1,079.76                     | 5,992.54                     | 5,873.51        | 5,805.09         | 68.42              | 85.839            |                                                                          |         |                            |  |
| 9,250.00                                    | 8,834.84       | 9,127.15       | 7,413.70       | 33.60           | 37.70  | -1.08             | 1,079.39                     | 5,992.54                     | 5,825.80        | 5,757.40         | 68.41              | 85.164            |                                                                          |         |                            |  |
| 9,263.62                                    | 8,835.00       | 9,127.24       | 7,413.70       | 33.67           | 37.71  | -1.18             | 1,079.29                     | 5,992.54                     | 5,812.60        | 5,744.20         | 68.40              | 84.975            |                                                                          |         |                            |  |
| 9,300.00                                    | 8,835.00       | 9,127.50       | 7,413.70       | 33.88           | 37.71  | -1.17             | 1,079.04                     | 5,992.55                     | 5,777.25        | 5,708.86         | 68.39              | 84.476            |                                                                          |         |                            |  |
| 9,400.00                                    | 8,835.00       | 9,128.20       | 7,413.71       | 34.53           | 37.72  | -1.14             | 1,078.34                     | 5,992.56                     | 5,680.13        | 5,611.78         | 68.35              | 83.107            |                                                                          |         |                            |  |
| 9,500.00                                    | 8,835.00       | 9,128.91       | 7,413.72       | 35.30           | 37.73  | -1.11             | 1,077.62                     | 5,992.57                     | 5,583.12        | 5,514.81         | 68.30              | 81.738            |                                                                          |         |                            |  |
| 9,600.00                                    | 8,835.00       | 9,129.65       | 7,413.73       | 36.17           | 37.75  | -1.08             | 1,076.89                     | 5,992.58                     | 5,486.21        | 5,417.95         | 68.26              | 80.370            |                                                                          |         |                            |  |
| 9,700.00                                    | 8,835.00       | 9,130.40       | 7,413.74       | 37.13           | 37.76  | -1.05             | 1,076.14                     | 5,992.59                     | 5,389.41        | 5,321.19         | 68.22              | 79.002            |                                                                          |         |                            |  |
| 9,800.00                                    | 8,835.00       | 9,131.17       | 7,413.75       | 38.18           | 37.77  | -1.02             | 1,075.37                     | 5,992.60                     | 5,292.74        | 5,224.56         | 68.18              | 77.634            |                                                                          |         |                            |  |
| 9,900.00                                    | 8,835.00       | 9,131.95       | 7,413.76       | 39.31           | 37.78  | -0.99             | 1,074.58                     | 5,992.61                     | 5,196.19        | 5,128.06         | 68.13              | 76.267            |                                                                          |         |                            |  |
| 10,000.00                                   | 8,835.00       | 9,132.76       | 7,413.77       | 40.51           | 37.80  | -0.95             | 1,073.78                     | 5,992.62                     | 5,099.77        | 5,031.68         | 68.09              | 74.901            |                                                                          |         |                            |  |
| 10,100.00                                   | 8,835.00       | 9,133.58       | 7,413.79       | 41.78           | 37.81  | -0.92             | 1,072.95                     | 5,992.64                     | 5,003.50        | 4,935.45         | 68.04              | 73.535            |                                                                          |         |                            |  |
| 10,200.00                                   | 8,835.00       | 9,134.43       | 7,413.80       | 43.10           | 37.82  | -0.88             | 1,072.11                     | 5,992.65                     | 4,907.37        | 4,839.37         | 68.00              | 72.170            |                                                                          |         |                            |  |
| 10,300.00                                   | 8,835.00       | 9,135.29       | 7,413.81       | 44.49           | 37.84  | -0.85             | 1,071.24                     | 5,992.66                     | 4,811.40        | 4,743.45         | 67.95              | 70.807            |                                                                          |         |                            |  |
| 10,400.00                                   | 8,835.00       | 9,136.18       | 7,413.83       | 45.92           | 37.85  | -0.81             | 1,070.36                     | 5,992.67                     | 4,715.59        | 4,647.69         | 67.90              | 69.445            |                                                                          |         |                            |  |
| 10,500.00                                   | 8,835.00       | 9,137.09       | 7,413.84       | 47.39           | 37.87  | -0.77             | 1,069.45                     | 5,992.69                     | 4,619.97        | 4,552.11         | 67.86              | 68.084            |                                                                          |         |                            |  |
| 10,600.00                                   | 8,835.00       | 9,138.02       | 7,413.86       | 48.91           | 37.88  | -0.73             | 1,068.51                     | 5,992.70                     | 4,524.53        | 4,456.72         | 67.81              | 66.724            |                                                                          |         |                            |  |
| 10,700.00                                   | 8,835.00       | 9,138.98       | 7,413.88       | 50.47           | 37.90  | -0.69             | 1,067.56                     | 5,992.72                     | 4,429.30        | 4,361.54         | 67.76              | 65.366            |                                                                          |         |                            |  |
| 10,800.00                                   | 8,835.00       | 9,139.96       | 7,413.90       | 52.06           | 37.91  | -0.65             | 1,066.58                     | 5,992.73                     | 4,334.28        | 4,266.57         | 67.71              | 64.010            |                                                                          |         |                            |  |
| 10,900.00                                   | 8,835.00       | 9,140.97       | 7,413.91       | 53.68           | 37.93  | -0.61             | 1,065.57                     | 5,992.75                     | 4,239.49        | 4,171.82         | 67.66              | 62.657            |                                                                          |         |                            |  |
| 11,000.00                                   | 8,835.00       | 9,142.01       | 7,413.93       | 55.32           | 37.95  | -0.56             | 1,064.53                     | 5,992.77                     | 4,144.94        | 4,077.33         | 67.61              | 61.305            |                                                                          |         |                            |  |
| 11,100.00                                   | 8,835.00       | 9,143.07       | 7,413.95       | 57.00           | 37.97  | -0.52             | 1,063.47                     | 5,992.78                     | 4,050.65        | 3,983.09         | 67.56              | 59.955            |                                                                          |         |                            |  |
| 11,200.00                                   | 8,835.00       | 9,144.17       | 7,413.98       | 58.70           | 37.98  | -0.47             | 1,062.37                     | 5,992.80                     | 3,956.65        | 3,889.14         | 67.51              | 58.609            |                                                                          |         |                            |  |
| 11,300.00                                   | 8,835.00       | 9,145.29       | 7,414.00       | 60.41           | 38.00  | -0.43             | 1,061.25                     | 5,992.82                     | 3,862.95        | 3,795.49         | 67.46              | 57.265            |                                                                          |         |                            |  |
| 11,400.00                                   | 8,835.00       | 9,146.45       | 7,414.02       | 62.15           | 38.02  | -0.38             | 1,060.09                     | 5,992.84                     | 3,769.56        | 3,702.16         | 67.41              | 55.924            |                                                                          |         |                            |  |
| 11,500.00                                   | 8,835.00       | 9,147.64       | 7,414.05       | 63.91           | 38.04  | -0.33             | 1,058.90                     | 5,992.86                     | 3,676.53        | 3,609.18         | 67.35              | 54.586            |                                                                          |         |                            |  |
| 11,600.00                                   | 8,835.00       | 9,148.87       | 7,414.07       | 65.69           | 38.06  | -0.28             | 1,057.67                     | 5,992.88                     | 3,583.87        | 3,516.57         | 67.30              | 53.252            |                                                                          |         |                            |  |
| 11,700.00                                   | 8,835.00       | 9,150.13       | 7,414.10       | 67.47           | 38.08  | -0.22             | 1,056.41                     | 5,992.90                     | 3,491.62        | 3,424.37         | 67.25              | 51.922            |                                                                          |         |                            |  |
| 11,800.00                                   | 8,835.00       | 9,151.43       | 7,414.13       | 69.28           | 38.10  | -0.17             | 1,055.11                     | 5,992.92                     | 3,399.80        | 3,332.61         | 67.20              | 50.596            |                                                                          |         |                            |  |
| 11,900.00                                   | 8,835.00       | 9,152.78       | 7,414.16       | 71.09           | 38.13  | -0.11             | 1,053.77                     | 5,992.95                     | 3,308.46        | 3,241.32         | 67.14              | 49.275            |                                                                          |         |                            |  |
| 12,000.00                                   | 8,835.00       | 9,154.16       | 7,414.19       | 72.92           | 38.15  | -0.05             | 1,052.38                     | 5,992.97                     | 3,217.63        | 3,150.54         | 67.09              | 47.958            |                                                                          |         |                            |  |
| 12,100.00                                   | 8,835.00       | 9,155.59       | 7,414.23       | 74.76           | 38.17  | 0.01              | 1,050.96                     | 5,993.00                     | 3,127.37        | 3,060.32         | 67.04              | 46.647            |                                                                          |         |                            |  |
| 12,200.00                                   | 8,835.00       | 9,157.06       | 7,414.26       | 76.61           | 38.20  | 0.07              | 1,049.48                     | 5,993.02                     | 3,037.71        | 2,970.71         | 67.00              | 45.342            |                                                                          |         |                            |  |
| 12,300.00                                   | 8,835.00       | 9,158.58       | 7,414.30       | 78.47           | 38.22  | 0.13              | 1,047.96                     | 5,993.05                     | 2,948.71        | 2,881.76         | 66.95              | 44.043            |                                                                          |         |                            |  |
| 12,400.00                                   | 8,835.00       | 9,160.16       | 7,414.34       | 80.34           | 38.25  | 0.20              | 1,046.39                     | 5,993.08                     | 2,860.44        | 2,793.54         | 66.91              | 42.752            |                                                                          |         |                            |  |
| 12,500.00                                   | 8,835.00       | 9,161.78       | 7,414.39       | 82.22           | 38.27  | 0.27              | 1,044.76                     | 5,993.11                     | 2,772.97        | 2,706.10         | 66.87              | 41.469            |                                                                          |         |                            |  |
| 12,600.00                                   | 8,835.00       | 9,163.47       | 7,414.43       | 84.11           | 38.30  | 0.34              | 1,043.08                     | 5,993.14                     | 2,686.37        | 2,619.54         | 66.84              | 40.194            |                                                                          |         |                            |  |
| 12,700.00                                   | 8,835.00       | 9,165.21       | 7,414.48       | 86.00           | 38.33  | 0.41              | 1,041.34                     | 5,993.17                     | 2,600.74        | 2,533.93         | 66.81              | 38.929            |                                                                          |         |                            |  |
| 12,800.00                                   | 8,835.00       | 9,167.01       | 7,414.53       | 87.90           | 38.36  | 0.48              | 1,039.54                     | 5,993.21                     | 2,516.16        | 2,449.37         | 66.79              | 37.675            |                                                                          |         |                            |  |
| 12,900.00                                   | 8,835.00       | 9,168.89       | 7,414.59       | 89.81           | 38.39  | 0.56              | 1,037.67                     | 5,993.24                     | 2,432.75        | 2,365.98         | 66.77              | 36.433            |                                                                          |         |                            |  |
| 13,000.00                                   | 8,835.00       | 9,170.83       | 7,414.65       | 91.72           | 38.42  | 0.64              | 1,035.73                     | 5,993.28                     | 2,350.63        | 2,283.86         | 66.77              | 35.205            |                                                                          |         |                            |  |
| 13,100.00                                   | 8,835.00       | 9,172.84       | 7,414.71       | 93.64           | 38.45  | 0.73              | 1,033.72                     | 5,993.32                     | 2,269.95        | 2,203.18         | 66.78              | 33.993            |                                                                          |         |                            |  |
| 13,200.00                                   | 8,835.00       | 9,174.93       | 7,414.78       | 95.56           | 38.49  | 0.82              | 1,031.63                     | 5,993.36                     | 2,190.86        | 2,124.07         | 66.80              | 32.799            |                                                                          |         |                            |  |
| 13,300.00                                   | 8,835.00       | 9,177.10       | 7,414.85       | 97.49           | 38.53  | 0.91              | 1,029.45                     | 5,993.41                     | 2,113.55        | 2,046.72         | 66.83              | 31.626            |                                                                          |         |                            |  |
| 13,400.00                                   | 8,835.00       | 9,179.36       | 7,414.92       | 99.42           | 38.56  | 1.00              | 1,027.20                     | 5,993.45                     | 2,038.20        | 1,971.32         | 66.88              | 30.477            |                                                                          |         |                            |  |
| 13,500.00                                   | 8,835.00       | 9,181.72       | 7,415.01       | 101.36          | 38.60  | 1.10              | 1,024.84                     | 5,993.50                     | 1,965.06        | 1,898.11         | 66.94              | 29.355            |                                                                          |         |                            |  |
| 13,600.00                                   | 8,835.00       | 9,184.17       | 7,415.09       | 103.30          | 38.64  | 1.20              | 1,022.40                     | 5,993.56                     | 1,894.36        | 1,827.34         | 67.02              | 28.265            |                                                                          |         |                            |  |
| 13,700.00                                   | 8,835.00       | 9,186.72       | 7,415.19       | 105.25          | 38.68  | 1.31              | 1,019.84                     | 5,993.61                     | 1,826.41        | 1,759.29         | 67.12              | 27.211            |                                                                          |         |                            |  |
| 13,800.00                                   | 8,835.00       | 9,189.39       | 7,415.29       | 107.20          | 38.73  | 1.42              | 1,017.18                     | 5,993.67                     | 1,761.52        | 1,694.28         | 67.24              | 26.199            |                                                                          |         |                            |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDCS Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|---------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 106-MWD+IGRF, 2746-MWD+IGRF |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.00 ft |
| Reference                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 13,900.00                                   | 8,835.00            | 9,192.18            | 7,415.39            | 109.15          | 38.77       | 1.54                  | 1,014.39                          | 5,993.73   | 1,700.03             | 1,632.66              | 67.37                   | 25.234            |                    |         |
| 14,000.00                                   | 8,835.00            | 9,195.09            | 7,415.51            | 111.10          | 38.82       | 1.66                  | 1,011.48                          | 5,993.80   | 1,642.32             | 1,574.80              | 67.52                   | 24.323            |                    |         |
| 14,100.00                                   | 8,835.00            | 9,198.14            | 7,415.63            | 113.06          | 38.87       | 1.79                  | 1,008.44                          | 5,993.87   | 1,588.82             | 1,521.13              | 67.69                   | 23.473            |                    |         |
| 14,200.00                                   | 8,835.00            | 9,201.34            | 7,415.77            | 115.03          | 38.92       | 1.93                  | 1,005.24                          | 5,993.94   | 1,539.96             | 1,472.08              | 67.88                   | 22.688            |                    |         |
| 14,300.00                                   | 8,835.00            | 9,204.69            | 7,415.92            | 116.99          | 38.98       | 2.07                  | 1,001.90                          | 5,994.02   | 1,496.19             | 1,428.10              | 68.09                   | 21.974            |                    |         |
| 14,400.00                                   | 8,835.00            | 9,208.21            | 7,416.07            | 118.96          | 39.04       | 2.21                  | 998.38                            | 5,994.11   | 1,457.97             | 1,389.63              | 68.34                   | 21.334            |                    |         |
| 14,500.00                                   | 8,835.00            | 9,211.91            | 7,416.25            | 120.93          | 39.10       | 2.37                  | 994.69                            | 5,994.20   | 1,425.74             | 1,357.10              | 68.64                   | 20.770            |                    |         |
| 14,600.00                                   | 8,835.00            | 9,215.81            | 7,416.43            | 122.90          | 39.16       | 2.53                  | 990.80                            | 5,994.30   | 1,399.93             | 1,330.90              | 69.03                   | 20.280            |                    |         |
| 14,700.00                                   | 8,835.00            | 9,219.91            | 7,416.64            | 124.88          | 39.23       | 2.71                  | 986.69                            | 5,994.41   | 1,380.89             | 1,311.36              | 69.53                   | 19.861            |                    |         |
| 14,800.00                                   | 8,835.00            | 9,224.00            | 7,416.86            | 126.86          | 39.30       | 2.89                  | 982.30                            | 5,994.52   | 1,368.88             | 1,293.30              | 70.12                   | 19.466            |                    |         |
| 14,900.00                                   | 8,835.00            | 9,228.10            | 7,417.07            | 128.84          | 39.37       | 3.07                  | 977.69                            | 5,994.63   | 1,364.18             | 1,275.93              | 70.81                   | 19.071            |                    |         |
| 14,914.32                                   | 8,835.00            | 14,914.32           | 7,415.53            | 129.12          | 133.37      | 1.44                  | 1,016.92                          | 5,993.75   | 1,364.10             | 1,257.65              | 106.45                  | 12.815 CC, ES     |                    |         |
| 15,000.00                                   | 8,835.00            | 15,000.00           | 7,415.55            | 130.82          | 134.79      | 1.48                  | 1,015.90                          | 5,993.77   | 1,366.79             | 1,258.60              | 108.19                  | 12.634 SF         |                    |         |
| 15,100.00                                   | 8,835.00            | 9,216.14            | 7,416.41            | 132.80          | 39.17       | 2.55                  | 990.46                            | 5,994.29   | 1,376.67             | 1,303.73              | 72.94                   | 18.875            |                    |         |
| 15,200.00                                   | 8,835.00            | 9,217.45            | 7,416.46            | 134.79          | 39.19       | 2.60                  | 989.15                            | 5,994.32   | 1,393.65             | 1,319.53              | 74.12                   | 18.802            |                    |         |
| 15,300.00                                   | 8,835.00            | 9,218.73            | 7,416.52            | 136.78          | 39.21       | 2.66                  | 987.87                            | 5,994.35   | 1,417.51             | 1,342.16              | 75.34                   | 18.814            |                    |         |
| 15,400.00                                   | 8,835.00            | 9,219.98            | 7,416.57            | 138.76          | 39.23       | 2.71                  | 986.62                            | 5,994.37   | 1,447.89             | 1,371.34              | 76.54                   | 18.916            |                    |         |
| 15,500.00                                   | 8,835.00            | 9,221.21            | 7,416.62            | 140.76          | 39.25       | 2.76                  | 985.40                            | 5,994.40   | 1,484.39             | 1,406.72              | 77.67                   | 19.111            |                    |         |
| 15,600.00                                   | 8,835.00            | 9,222.40            | 7,416.67            | 142.75          | 39.27       | 2.81                  | 984.21                            | 5,994.43   | 1,526.59             | 1,447.88              | 78.70                   | 19.397            |                    |         |
| 15,700.00                                   | 8,835.00            | 9,223.56            | 7,416.72            | 144.74          | 39.29       | 2.86                  | 983.04                            | 5,994.45   | 1,574.01             | 1,494.39              | 79.61                   | 19.771            |                    |         |
| 15,800.00                                   | 8,835.00            | 9,224.70            | 7,416.76            | 146.74          | 39.31       | 2.91                  | 981.91                            | 5,994.47   | 1,626.20             | 1,545.80              | 80.40                   | 20.226            |                    |         |
| 15,900.00                                   | 8,835.00            | 9,225.81            | 7,416.81            | 148.73          | 39.33       | 2.95                  | 980.80                            | 5,994.50   | 1,682.73             | 1,601.65              | 81.07                   | 20.755            |                    |         |
| 16,000.00                                   | 8,835.00            | 9,226.90            | 7,416.85            | 150.73          | 39.35       | 3.00                  | 979.71                            | 5,994.52   | 1,743.16             | 1,661.52              | 81.63                   | 21.354            |                    |         |
| 16,100.00                                   | 8,835.00            | 9,227.96            | 7,416.90            | 152.73          | 39.37       | 3.04                  | 978.65                            | 5,994.54   | 1,807.10             | 1,725.01              | 82.09                   | 22.013            |                    |         |
| 16,200.00                                   | 8,835.00            | 9,229.00            | 7,416.94            | 154.73          | 39.38       | 3.09                  | 977.61                            | 5,994.56   | 1,874.20             | 1,791.74              | 82.46                   | 22.728            |                    |         |
| 16,300.00                                   | 8,835.00            | 9,230.02            | 7,416.98            | 156.73          | 39.40       | 3.13                  | 976.59                            | 5,994.58   | 1,944.14             | 1,861.38              | 82.76                   | 23.491            |                    |         |
| 16,400.00                                   | 8,835.00            | 9,231.02            | 7,417.02            | 158.74          | 39.42       | 3.17                  | 975.60                            | 5,994.60   | 2,016.60             | 1,933.61              | 82.99                   | 24.299            |                    |         |
| 16,500.00                                   | 8,835.00            | 9,231.99            | 7,417.06            | 160.74          | 39.43       | 3.21                  | 974.62                            | 5,994.62   | 2,091.34             | 2,008.17              | 83.17                   | 25.145            |                    |         |
| 16,600.00                                   | 8,835.00            | 9,232.95            | 7,417.10            | 162.74          | 39.45       | 3.25                  | 973.67                            | 5,994.64   | 2,168.11             | 2,084.81              | 83.30                   | 26.027            |                    |         |
| 16,700.00                                   | 8,835.00            | 9,233.88            | 7,417.14            | 164.75          | 39.47       | 3.29                  | 972.74                            | 5,994.66   | 2,246.71             | 2,163.31              | 83.40                   | 26.938            |                    |         |
| 16,800.00                                   | 8,835.00            | 9,234.80            | 7,417.17            | 166.76          | 39.48       | 3.33                  | 971.82                            | 5,994.68   | 2,326.96             | 2,243.48              | 83.47                   | 27.878            |                    |         |
| 16,900.00                                   | 8,835.00            | 9,235.69            | 7,417.21            | 168.77          | 39.50       | 3.37                  | 970.93                            | 5,994.69   | 2,408.68             | 2,325.16              | 83.52                   | 28.841            |                    |         |
| 17,000.00                                   | 8,835.00            | 9,236.57            | 7,417.24            | 170.77          | 39.51       | 3.41                  | 970.05                            | 5,994.71   | 2,491.73             | 2,408.19              | 83.54                   | 29.826            |                    |         |
| 17,100.00                                   | 8,835.00            | 9,237.43            | 7,417.28            | 172.78          | 39.52       | 3.44                  | 969.19                            | 5,994.73   | 2,575.99             | 2,492.44              | 83.55                   | 30.830            |                    |         |
| 17,200.00                                   | 8,835.00            | 9,238.28            | 7,417.31            | 174.79          | 39.54       | 3.48                  | 968.34                            | 5,994.74   | 2,661.34             | 2,577.78              | 83.55                   | 31.851            |                    |         |
| 17,300.00                                   | 8,835.00            | 9,239.11            | 7,417.34            | 176.81          | 39.55       | 3.51                  | 967.52                            | 5,994.76   | 2,747.67             | 2,664.13              | 83.55                   | 32.888            |                    |         |
| 17,400.00                                   | 8,835.00            | 9,239.92            | 7,417.37            | 178.82          | 39.57       | 3.55                  | 966.71                            | 5,994.77   | 2,834.91             | 2,751.38              | 83.53                   | 33.938            |                    |         |
| 17,500.00                                   | 8,835.00            | 9,240.71            | 7,417.40            | 180.83          | 39.58       | 3.58                  | 965.91                            | 5,994.79   | 2,922.96             | 2,839.45              | 83.51                   | 35.000            |                    |         |
| 17,600.00                                   | 8,835.00            | 9,241.49            | 7,417.43            | 182.84          | 39.59       | 3.61                  | 965.13                            | 5,994.80   | 3,011.76             | 2,928.27              | 83.49                   | 36.072            |                    |         |
| 17,700.00                                   | 8,835.00            | 9,242.26            | 7,417.46            | 184.86          | 39.60       | 3.64                  | 964.36                            | 5,994.82   | 3,101.24             | 3,017.77              | 83.47                   | 37.154            |                    |         |
| 17,800.00                                   | 8,835.00            | 9,243.01            | 7,417.49            | 186.87          | 39.62       | 3.68                  | 963.61                            | 5,994.83   | 3,191.34             | 3,107.90              | 83.45                   | 38.244            |                    |         |
| 17,900.00                                   | 8,835.00            | 9,243.75            | 7,417.52            | 188.89          | 39.63       | 3.71                  | 962.88                            | 5,994.84   | 3,282.02             | 3,198.60              | 83.42                   | 39.342            |                    |         |
| 18,000.00                                   | 8,835.00            | 9,244.48            | 7,417.55            | 190.91          | 39.64       | 3.74                  | 962.15                            | 5,994.86   | 3,373.22             | 3,289.82              | 83.40                   | 40.446            |                    |         |
| 18,100.00                                   | 8,835.00            | 9,245.19            | 7,417.58            | 192.92          | 39.65       | 3.77                  | 961.44                            | 5,994.87   | 3,464.91             | 3,381.53              | 83.38                   | 41.557            |                    |         |
| 18,200.00                                   | 8,835.00            | 9,245.89            | 7,417.60            | 194.94          | 39.67       | 3.80                  | 960.74                            | 5,994.88   | 3,557.05             | 3,473.69              | 83.36                   | 42.672            |                    |         |
| 18,300.00                                   | 8,835.00            | 9,246.57            | 7,417.63            | 196.96          | 39.68       | 3.83                  | 960.06                            | 5,994.89   | 3,649.60             | 3,566.26              | 83.34                   | 43.791            |                    |         |
| 18,400.00                                   | 8,835.00            | 9,247.25            | 7,417.65            | 198.98          | 39.69       | 3.85                  | 959.38                            | 5,994.91   | 3,742.53             | 3,659.21              | 83.32                   | 44.915            |                    |         |
| 18,500.00                                   | 8,835.00            | 9,247.91            | 7,417.68            | 201.00          | 39.70       | 3.88                  | 958.72                            | 5,994.92   | 3,835.82             | 3,752.51              | 83.31                   | 46.042            |                    |         |
| 18,600.00                                   | 8,835.00            | 9,248.56            | 7,417.70            | 203.02          | 39.71       | 3.91                  | 958.07                            | 5,994.93   | 3,929.44             | 3,846.14              | 83.30                   | 47.171            |                    |         |
| 18,700.00                                   | 8,835.00            | 9,249.20            | 7,417.73            | 205.04          | 39.72       | 3.94                  | 957.43                            | 5,994.94   | 4,023.36             | 3,940.07              | 83.29                   | 48.304            |                    |         |
| 18,800.00                                   | 8,835.00            | 9,249.83            | 7,417.75            | 207.06          | 39.73       | 3.96                  | 956.80                            | 5,994.95   | 4,117.57             | 4,034.29              | 83.29                   | 49.438            |                    |         |
| 18,900.00                                   | 8,835.00            | 9,250.45            | 7,417.77            | 209.08          | 39.74       | 3.99                  | 956.18                            | 5,994.96   | 4,212.05             | 4,128.77              | 83.29                   | 50.574            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw 13 State 15H - Original Hole - Actuals |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Site Error:</b> | 5.00 ft |
|-----------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|-----------------------------------------|---------------|-------------------------|--------------------------|----------------------------|---------------------------|---------|
| Survey Program: 106-MWD+IGRF, 2746-MWD+IGRF                                                   |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Well Error:</b> | 0.00 ft |
| Reference                                                                                     |                        | Offset                 |                        | Semi Major Axis   |                |                          | Distance                                |               |                         |                          |                            |                           | Warning |
| Measured Depth<br>(ft)                                                                        | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between Centres<br>(ft) | Between Ellipses<br>(ft) | Minimum Separation<br>(ft) | Separation Factor         |         |
| 19,000.00                                                                                     | 8,835.00               | 9,251.06               | 7,417.80               | 211.10            | 39.75          | 4.01                     | 955.58                                  | 5,994.97      | 4,306.78                | 4,223.49                 | 83.29                      | 51.711                    |         |
| 19,100.00                                                                                     | 8,835.00               | 9,251.65               | 7,417.82               | 213.12            | 39.76          | 4.04                     | 954.98                                  | 5,994.98      | 4,401.74                | 4,318.45                 | 83.29                      | 52.849                    |         |
| 19,200.00                                                                                     | 8,835.00               | 9,252.24               | 7,417.84               | 215.15            | 39.77          | 4.06                     | 954.39                                  | 5,994.99      | 4,496.92                | 4,413.62                 | 83.29                      | 53.989                    |         |
| 19,308.27                                                                                     | 8,835.00               | 9,252.87               | 7,417.86               | 217.34            | 39.78          | 4.09                     | 953.77                                  | 5,995.00      | 4,600.20                | 4,516.90                 | 83.30                      | 55.222                    |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 18-GYRO-NS-CT |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                          | 0.00                | 0.00                | 0.00                | 0.50            | 5.02        | 61.82                 | 3,098.47                          | 5,783.09   | 6,561.16             |                       |                         |                   |                    |         |
| 100.00                        | 100.00              | 9.67                | 9.67                | 0.52            | 5.02        | 61.82                 | 3,098.48                          | 5,783.10   | 6,560.91             | 6,555.37              | 5.54                    | 1,183.697         |                    |         |
| 200.00                        | 200.00              | 83.56               | 83.56               | 0.70            | 5.03        | 61.82                 | 3,098.88                          | 5,783.50   | 6,561.60             | 6,555.87              | 5.73                    | 1,145.501         |                    |         |
| 300.00                        | 300.00              | 189.18              | 189.17              | 0.99            | 5.04        | 61.82                 | 3,099.08                          | 5,784.32   | 6,562.37             | 6,556.35              | 6.03                    | 1,088.339         |                    |         |
| 400.00                        | 400.00              | 288.98              | 288.98              | 1.31            | 5.08        | 61.82                 | 3,098.99                          | 5,785.15   | 6,563.07             | 6,556.67              | 6.39                    | 1,026.684         |                    |         |
| 500.00                        | 500.00              | 386.93              | 386.92              | 1.65            | 5.15        | 61.83                 | 3,099.00                          | 5,785.95   | 6,563.79             | 6,556.99              | 6.79                    | 966.316           |                    |         |
| 600.00                        | 600.00              | 491.69              | 491.68              | 1.99            | 5.24        | 61.83                 | 3,098.98                          | 5,786.79   | 6,564.49             | 6,557.26              | 7.23                    | 908.113           |                    |         |
| 700.00                        | 700.00              | 596.24              | 596.22              | 2.34            | 5.35        | 61.83                 | 3,098.78                          | 5,787.62   | 6,565.10             | 6,557.41              | 7.69                    | 853.455           |                    |         |
| 800.00                        | 800.00              | 740.90              | 740.88              | 2.69            | 5.55        | 61.83                 | 3,099.49                          | 5,788.04   | 6,565.69             | 6,557.45              | 8.24                    | 796.975           |                    |         |
| 900.00                        | 900.00              | 883.72              | 883.69              | 3.04            | 5.78        | 61.83                 | 3,099.34                          | 5,787.08   | 6,564.95             | 6,556.13              | 8.82                    | 744.428           |                    |         |
| 1,000.00                      | 1,000.00            | 953.30              | 953.27              | 3.40            | 5.90        | 61.83                 | 3,098.70                          | 5,787.16   | 6,564.56             | 6,555.26              | 9.30                    | 706.144           |                    |         |
| 1,018.08                      | 1,018.08            | 953.30              | 953.27              | 3.46            | 5.90        | 61.83                 | 3,098.70                          | 5,787.16   | 6,564.53             | 6,555.17              | 9.36                    | 701.299           |                    |         |
| 1,100.00                      | 1,100.00            | 1,029.12            | 1,029.09            | 3.75            | 6.04        | 61.84                 | 3,098.01                          | 5,787.59   | 6,564.59             | 6,554.80              | 9.79                    | 670.234           |                    |         |
| 1,200.00                      | 1,200.00            | 1,129.89            | 1,129.85            | 4.11            | 6.24        | 61.85                 | 3,097.46                          | 5,787.99   | 6,564.69             | 6,554.33              | 10.35                   | 634.124           |                    |         |
| 1,300.00                      | 1,300.00            | 1,225.37            | 1,225.33            | 4.46            | 6.45        | 61.85                 | 3,097.19                          | 5,788.25   | 6,564.80             | 6,553.88              | 10.91                   | 601.617           |                    |         |
| 1,400.00                      | 1,400.00            | 1,321.64            | 1,321.60            | 4.82            | 6.67        | 61.85                 | 3,097.00                          | 5,788.55   | 6,564.98             | 6,553.49              | 11.48                   | 571.652           |                    |         |
| 1,500.00                      | 1,500.00            | 1,420.59            | 1,420.55            | 5.18            | 6.90        | 61.86                 | 3,096.78                          | 5,788.91   | 6,565.19             | 6,553.12              | 12.07                   | 543.792           |                    |         |
| 1,600.00                      | 1,600.00            | 1,527.00            | 1,526.96            | 5.53            | 7.16        | 61.86                 | 3,096.33                          | 5,789.37   | 6,565.38             | 6,552.69              | 12.69                   | 517.379           |                    |         |
| 1,700.00                      | 1,700.00            | 1,645.52            | 1,645.48            | 5.89            | 7.46        | 61.87                 | 3,095.68                          | 5,789.69   | 6,565.35             | 6,552.01              | 13.35                   | 491.901           |                    |         |
| 1,800.00                      | 1,800.00            | 1,761.51            | 1,761.46            | 6.25            | 7.76        | 61.87                 | 3,095.09                          | 5,789.65   | 6,565.08             | 6,551.07              | 14.01                   | 468.690           |                    |         |
| 1,900.00                      | 1,900.00            | 1,861.65            | 1,861.60            | 6.61            | 8.03        | 61.87                 | 3,094.84                          | 5,789.28   | 6,564.64             | 6,550.01              | 14.63                   | 448.605           |                    |         |
| 2,000.00                      | 2,000.00            | 1,961.72            | 1,961.67            | 6.96            | 8.31        | 61.87                 | 3,094.89                          | 5,788.82   | 6,564.25             | 6,548.99              | 15.27                   | 430.001           |                    |         |
| 2,100.00                      | 2,099.99            | 2,066.48            | 2,066.43            | 7.32            | 8.60        | 74.66                 | 3,094.99                          | 5,788.24   | 6,563.59             | 6,547.67              | 15.92                   | 412.381           |                    |         |
| 2,200.00                      | 2,199.96            | 2,172.84            | 2,172.79            | 7.68            | 8.90        | 74.69                 | 3,095.11                          | 5,787.55   | 6,562.37             | 6,545.79              | 16.58                   | 395.883           |                    |         |
| 2,300.00                      | 2,299.86            | 2,273.33            | 2,273.27            | 8.04            | 9.19        | 74.74                 | 3,095.32                          | 5,786.77   | 6,560.64             | 6,543.41              | 17.22                   | 380.888           |                    |         |
| 2,400.00                      | 2,399.68            | 2,366.26            | 2,366.20            | 8.39            | 9.47        | 74.80                 | 3,095.58                          | 5,786.07   | 6,558.50             | 6,540.64              | 17.85                   | 367.337           |                    |         |
| 2,500.00                      | 2,499.37            | 2,455.94            | 2,455.87            | 8.75            | 9.73        | 74.88                 | 3,095.88                          | 5,785.51   | 6,556.04             | 6,537.57              | 18.48                   | 354.820           |                    |         |
| 2,600.00                      | 2,598.90            | 2,563.11            | 2,563.05            | 9.11            | 10.06       | 74.99                 | 3,096.11                          | 5,784.92   | 6,553.15             | 6,533.99              | 19.16                   | 342.103           |                    |         |
| 2,700.00                      | 2,698.26            | 2,664.76            | 2,664.70            | 9.46            | 10.37       | 75.12                 | 3,096.11                          | 5,784.39   | 6,549.75             | 6,529.93              | 19.82                   | 330.451           |                    |         |
| 2,800.00                      | 2,797.40            | 2,764.23            | 2,764.16            | 9.82            | 10.67       | 75.26                 | 3,096.22                          | 5,783.77   | 6,545.89             | 6,525.41              | 20.48                   | 319.582           |                    |         |
| 2,900.00                      | 2,896.30            | 2,874.75            | 2,874.68            | 10.18           | 11.01       | 75.44                 | 3,096.65                          | 5,782.94   | 6,541.63             | 6,520.44              | 21.18                   | 308.825           |                    |         |
| 3,000.00                      | 2,994.93            | 3,020.25            | 3,020.17            | 10.54           | 11.47       | 75.69                 | 3,096.73                          | 5,781.23   | 6,536.43             | 6,514.43              | 21.99                   | 297.191           |                    |         |
| 3,100.00                      | 3,093.26            | 3,099.97            | 3,099.88            | 10.90           | 11.72       | 75.86                 | 3,096.46                          | 5,780.29   | 6,530.66             | 6,508.05              | 22.61                   | 288.895           |                    |         |
| 3,195.07                      | 3,186.42            | 3,176.08            | 3,175.99            | 11.24           | 11.96       | 76.05                 | 3,096.11                          | 5,779.64   | 6,525.04             | 6,501.85              | 23.19                   | 281.366           |                    |         |
| 3,200.00                      | 3,191.25            | 3,180.01            | 3,179.92            | 11.26           | 11.97       | 76.06                 | 3,096.10                          | 5,779.62   | 6,524.75             | 6,501.53              | 23.22                   | 280.985           |                    |         |
| 3,300.00                      | 3,289.08            | 3,256.76            | 3,256.67            | 11.62           | 12.22       | 76.19                 | 3,095.94                          | 5,779.12   | 6,519.01             | 6,495.18              | 23.83                   | 273.575           |                    |         |
| 3,400.00                      | 3,386.91            | 3,319.33            | 3,319.23            | 11.98           | 12.42       | 76.30                 | 3,096.28                          | 5,778.74   | 6,513.70             | 6,489.31              | 24.39                   | 267.015           |                    |         |
| 3,500.00                      | 3,484.74            | 3,385.60            | 3,385.50            | 12.35           | 12.63       | 76.41                 | 3,096.85                          | 5,778.83   | 6,509.16             | 6,484.18              | 24.97                   | 260.641           |                    |         |
| 3,600.00                      | 3,582.58            | 3,471.50            | 3,471.39            | 12.72           | 12.90       | 76.56                 | 3,097.55                          | 5,779.30   | 6,505.04             | 6,479.43              | 25.62                   | 253.931           |                    |         |
| 3,700.00                      | 3,680.41            | 3,592.98            | 3,592.87            | 13.09           | 13.29       | 76.77                 | 3,098.07                          | 5,779.73   | 6,500.68             | 6,474.30              | 26.38                   | 246.440           |                    |         |
| 3,800.00                      | 3,778.24            | 3,693.37            | 3,693.26            | 13.46           | 13.62       | 76.95                 | 3,098.31                          | 5,779.98   | 6,496.21             | 6,469.14              | 27.07                   | 239.940           |                    |         |
| 3,900.00                      | 3,876.08            | 3,794.56            | 3,794.45            | 13.83           | 13.95       | 77.13                 | 3,098.50                          | 5,780.21   | 6,491.77             | 6,463.99              | 27.78                   | 233.723           |                    |         |
| 4,000.00                      | 3,973.91            | 3,900.92            | 3,900.81            | 14.21           | 14.30       | 77.32                 | 3,098.79                          | 5,780.32   | 6,487.30             | 6,458.80              | 28.50                   | 227.659           |                    |         |
| 4,100.00                      | 4,071.74            | 4,005.16            | 4,005.05            | 14.58           | 14.64       | 77.50                 | 3,099.10                          | 5,780.24   | 6,482.75             | 6,453.54              | 29.21                   | 221.925           |                    |         |
| 4,200.00                      | 4,169.57            | 4,107.60            | 4,107.49            | 14.96           | 14.97       | 77.68                 | 3,099.46                          | 5,780.07   | 6,478.21             | 6,448.29              | 29.92                   | 216.493           |                    |         |
| 4,300.00                      | 4,267.41            | 4,211.13            | 4,211.02            | 15.33           | 15.31       | 77.86                 | 3,099.84                          | 5,779.79   | 6,473.64             | 6,443.00              | 30.64                   | 211.276           |                    |         |
| 4,400.00                      | 4,365.24            | 4,316.71            | 4,316.61            | 15.71           | 15.66       | 78.05                 | 3,100.17                          | 5,779.41   | 6,469.04             | 6,437.67              | 31.37                   | 206.240           |                    |         |
| 4,500.00                      | 4,463.07            | 4,442.93            | 4,442.82            | 16.09           | 16.08       | 78.27                 | 3,100.34                          | 5,778.68   | 6,464.22             | 6,432.06              | 32.16                   | 200.995           |                    |         |
| 4,600.00                      | 4,560.90            | 4,555.46            | 4,555.34            | 16.47           | 16.45       | 78.47                 | 3,100.09                          | 5,777.76   | 6,459.10             | 6,426.19              | 32.91                   | 196.250           |                    |         |
| 4,700.00                      | 4,658.74            | 4,652.44            | 4,652.32            | 16.85           | 16.78       | 78.64                 | 3,100.04                          | 5,776.79   | 6,453.96             | 6,420.35              | 33.62                   | 191.996           |                    |         |
| 4,800.00                      | 4,756.57            | 4,742.67            | 4,742.54            | 17.23           | 17.08       | 78.80                 | 3,100.29                          | 5,775.83   | 6,448.95             | 6,414.65              | 34.30                   | 188.033           |                    |         |
| 4,900.00                      | 4,854.40            | 4,830.31            | 4,830.18            | 17.61           | 17.37       | 78.95                 | 3,100.65                          | 5,774.98   | 6,444.15             | 6,409.18              | 34.97                   | 184.269           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 18-GYRO-NS-CT |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,000.00                      | 4,952.23            | 4,906.56            | 4,906.43            | 17.99           | 17.63       | 79.09                 | 3,101.02                          | 5,774.38   | 6,439.60             | 6,403.99              | 35.61                   | 180.840           |                    |         |
| 5,100.00                      | 5,050.07            | 4,975.95            | 4,975.82            | 18.37           | 17.86       | 79.21                 | 3,101.44                          | 5,774.23   | 6,435.63             | 6,399.40              | 36.22                   | 177.657           |                    |         |
| 5,200.00                      | 5,147.90            | 5,058.30            | 5,058.16            | 18.75           | 18.14       | 79.36                 | 3,101.77                          | 5,774.44   | 6,432.07             | 6,395.18              | 36.88                   | 174.389           |                    |         |
| 5,300.00                      | 5,245.73            | 5,142.83            | 5,142.69            | 19.14           | 18.42       | 79.51                 | 3,101.78                          | 5,774.87   | 6,428.68             | 6,391.13              | 37.55                   | 171.203           |                    |         |
| 5,400.00                      | 5,343.56            | 5,230.53            | 5,230.39            | 19.52           | 18.71       | 79.67                 | 3,101.64                          | 5,775.59   | 6,425.56             | 6,387.33              | 38.23                   | 168.085           |                    |         |
| 5,500.00                      | 5,441.40            | 5,322.97            | 5,322.82            | 19.90           | 19.03       | 79.85                 | 3,101.46                          | 5,776.47   | 6,422.62             | 6,383.69              | 38.92                   | 165.011           |                    |         |
| 5,600.00                      | 5,539.23            | 5,449.90            | 5,449.76            | 20.29           | 19.45       | 80.08                 | 3,101.93                          | 5,777.19   | 6,419.63             | 6,379.89              | 39.73                   | 161.568           |                    |         |
| 5,700.00                      | 5,637.06            | 5,572.34            | 5,572.19            | 20.67           | 19.87       | 80.29                 | 3,102.58                          | 5,777.19   | 6,416.23             | 6,375.70              | 40.53                   | 158.309           |                    |         |
| 5,800.00                      | 5,734.90            | 5,677.03            | 5,676.88            | 21.05           | 20.22       | 80.48                 | 3,103.00                          | 5,776.87   | 6,412.57             | 6,371.30              | 41.27                   | 155.389           |                    |         |
| 5,900.00                      | 5,832.73            | 5,765.21            | 5,765.06            | 21.44           | 20.52       | 80.64                 | 3,103.34                          | 5,776.71   | 6,409.08             | 6,367.12              | 41.95                   | 152.773           |                    |         |
| 6,000.00                      | 5,930.56            | 5,855.74            | 5,855.59            | 21.83           | 20.83       | 80.80                 | 3,103.63                          | 5,776.69   | 6,405.77             | 6,363.13              | 42.64                   | 150.216           |                    |         |
| 6,100.00                      | 6,028.39            | 5,955.74            | 5,955.58            | 22.21           | 21.17       | 80.98                 | 3,103.72                          | 5,776.86   | 6,402.61             | 6,359.24              | 43.37                   | 147.634           |                    |         |
| 6,200.00                      | 6,126.23            | 6,063.18            | 6,063.03            | 22.60           | 21.53       | 81.18                 | 3,103.50                          | 5,776.98   | 6,399.36             | 6,355.24              | 44.12                   | 145.051           |                    |         |
| 6,300.00                      | 6,224.06            | 6,176.38            | 6,176.23            | 22.98           | 21.91       | 81.40                 | 3,102.53                          | 5,777.22   | 6,396.04             | 6,351.15              | 44.89                   | 142.490           |                    |         |
| 6,400.00                      | 6,321.89            | 6,264.49            | 6,264.32            | 23.37           | 22.21       | 81.57                 | 3,101.38                          | 5,777.46   | 6,392.68             | 6,347.11              | 45.57                   | 140.268           |                    |         |
| 6,500.00                      | 6,419.72            | 6,349.44            | 6,349.26            | 23.76           | 22.50       | 81.74                 | 3,100.36                          | 5,777.85   | 6,389.60             | 6,343.35              | 46.25                   | 138.149           |                    |         |
| 6,600.00                      | 6,517.56            | 6,423.26            | 6,423.08            | 24.14           | 22.75       | 81.88                 | 3,099.55                          | 5,778.35   | 6,386.84             | 6,339.95              | 46.89                   | 136.206           |                    |         |
| 6,700.00                      | 6,615.39            | 6,489.76            | 6,489.58            | 24.53           | 22.98       | 82.01                 | 3,098.85                          | 5,779.11   | 6,384.59             | 6,337.09              | 47.51                   | 134.398           |                    |         |
| 6,800.00                      | 6,713.22            | 6,553.37            | 6,553.17            | 24.92           | 23.20       | 82.14                 | 3,098.30                          | 5,780.15   | 6,382.93             | 6,334.82              | 48.11                   | 132.677           |                    |         |
| 6,900.00                      | 6,811.05            | 6,656.30            | 6,656.08            | 25.30           | 23.55       | 82.34                 | 3,097.52                          | 5,782.11   | 6,381.61             | 6,332.77              | 48.85                   | 130.642           |                    |         |
| 7,000.00                      | 6,908.89            | 6,767.84            | 6,767.60            | 25.69           | 23.93       | 82.56                 | 3,096.45                          | 5,784.01   | 6,380.13             | 6,330.51              | 49.62                   | 128.587           |                    |         |
| 7,100.00                      | 7,006.72            | 6,849.37            | 6,849.11            | 26.08           | 24.21       | 82.72                 | 3,095.98                          | 5,785.34   | 6,378.78             | 6,328.49              | 50.28                   | 126.857           |                    |         |
| 7,200.00                      | 7,104.55            | 6,952.96            | 6,952.69            | 26.47           | 24.57       | 82.91                 | 3,096.11                          | 5,786.85   | 6,377.57             | 6,326.55              | 51.03                   | 124.989           |                    |         |
| 7,216.87                      | 7,121.05            | 6,958.73            | 6,958.46            | 26.53           | 24.59       | 82.92                 | 3,096.13                          | 5,786.94   | 6,377.39             | 6,326.28              | 51.11                   | 124.778           |                    |         |
| 7,300.00                      | 7,202.57            | 7,011.30            | 7,011.02            | 26.85           | 24.77       | 83.01                 | 3,096.36                          | 5,787.85   | 6,376.84             | 6,325.24              | 51.61                   | 123.562           |                    |         |
| 7,333.35                      | 7,235.37            | 7,034.05            | 7,033.77            | 26.98           | 24.84       | 83.04                 | 3,096.47                          | 5,788.31   | 6,376.80             | 6,324.99              | 51.81                   | 123.075           |                    |         |
| 7,400.00                      | 7,301.06            | 7,075.50            | 7,075.20            | 27.23           | 24.99       | 83.11                 | 3,096.66                          | 5,789.28   | 6,377.02             | 6,324.81              | 52.21                   | 122.153           |                    |         |
| 7,500.00                      | 7,399.97            | 7,141.36            | 7,141.04            | 27.61           | 25.21       | 83.22                 | 3,096.93                          | 5,791.13   | 6,378.07             | 6,325.27              | 52.80                   | 120.794           |                    |         |
| 7,600.00                      | 7,499.23            | 7,211.68            | 7,211.32            | 27.98           | 25.46       | 83.33                 | 3,096.92                          | 5,793.57   | 6,379.93             | 6,326.53              | 53.41                   | 119.461           |                    |         |
| 7,700.00                      | 7,598.77            | 7,295.94            | 7,295.50            | 28.34           | 25.75       | 83.45                 | 3,096.24                          | 5,797.05   | 6,382.48             | 6,328.43              | 54.05                   | 118.075           |                    |         |
| 7,800.00                      | 7,698.53            | 7,383.03            | 7,382.49            | 28.70           | 26.05       | 83.57                 | 3,094.94                          | 5,801.04   | 6,385.55             | 6,330.84              | 54.71                   | 116.721           |                    |         |
| 7,900.00                      | 7,798.44            | 7,467.36            | 7,466.72            | 29.05           | 26.35       | 83.68                 | 3,093.83                          | 5,805.03   | 6,389.12             | 6,333.78              | 55.34                   | 115.444           |                    |         |
| 8,000.00                      | 7,898.42            | 7,553.22            | 7,552.58            | 29.39           | 26.60       | 83.80                 | 3,091.75                          | 5,812.94   | 6,392.38             | 6,334.84              | 57.54                   | 111.095           |                    |         |
| 8,013.58                      | 7,912.00            | 7,713.98            | 7,713.14            | 29.43           | 27.21       | 71.03                 | 3,091.28                          | 5,814.29   | 6,392.69             | 6,336.09              | 56.60                   | 112.940           |                    |         |
| 8,100.00                      | 7,998.42            | 7,803.51            | 7,802.64            | 29.73           | 27.52       | 71.05                 | 3,090.44                          | 5,816.54   | 6,394.48             | 6,337.28              | 57.20                   | 111.783           |                    |         |
| 8,200.00                      | 8,098.42            | 7,876.00            | 7,875.11            | 30.07           | 27.77       | 71.06                 | 3,089.81                          | 5,818.32   | 6,396.58             | 6,338.79              | 57.79                   | 110.684           |                    |         |
| 8,300.00                      | 8,198.42            | 7,876.00            | 7,875.11            | 30.41           | 27.77       | 71.06                 | 3,089.81                          | 5,818.32   | 6,399.84             | 6,341.73              | 58.12                   | 110.123           |                    |         |
| 8,363.62                      | 8,262.04            | 7,876.00            | 7,875.11            | 30.62           | 27.77       | 71.06                 | 3,089.81                          | 5,818.32   | 6,402.73             | 6,344.41              | 58.32                   | 109.795           |                    |         |
| 8,400.00                      | 8,298.40            | 7,876.00            | 7,875.11            | 30.75           | 27.77       | -18.57                | 3,089.81                          | 5,818.32   | 6,403.57             | 6,345.14              | 58.43                   | 109.603           |                    |         |
| 8,450.00                      | 8,348.10            | 7,876.00            | 7,875.11            | 30.91           | 27.77       | -18.64                | 3,089.81                          | 5,818.32   | 6,401.49             | 6,342.92              | 58.57                   | 109.298           |                    |         |
| 8,500.00                      | 8,397.14            | 7,876.00            | 7,875.11            | 31.07           | 27.77       | -18.83                | 3,089.81                          | 5,818.32   | 6,395.67             | 6,336.97              | 58.71                   | 108.939           |                    |         |
| 8,550.00                      | 8,445.15            | 7,876.00            | 7,875.11            | 31.23           | 27.77       | -19.14                | 3,089.81                          | 5,818.32   | 6,386.16             | 6,327.32              | 58.84                   | 108.530           |                    |         |
| 8,600.00                      | 8,491.77            | 7,876.00            | 7,875.11            | 31.38           | 27.77       | -19.60                | 3,089.81                          | 5,818.32   | 6,373.01             | 6,314.04              | 58.97                   | 108.075           |                    |         |
| 8,650.00                      | 8,536.65            | 7,876.00            | 7,875.11            | 31.52           | 27.77       | -20.20                | 3,089.81                          | 5,818.32   | 6,356.30             | 6,297.21              | 59.09                   | 107.575           |                    |         |
| 8,700.00                      | 8,579.43            | 7,876.00            | 7,875.11            | 31.66           | 27.77       | -20.98                | 3,089.81                          | 5,818.32   | 6,336.12             | 6,276.92              | 59.20                   | 107.036           |                    |         |
| 8,750.00                      | 8,619.80            | 7,876.00            | 7,875.11            | 31.80           | 27.77       | -21.95                | 3,089.81                          | 5,818.32   | 6,312.60             | 6,253.30              | 59.30                   | 106.458           |                    |         |
| 8,800.00                      | 8,657.44            | 7,876.00            | 7,875.11            | 31.93           | 27.77       | -23.17                | 3,089.81                          | 5,818.32   | 6,285.88             | 6,226.49              | 59.39                   | 105.846           |                    |         |
| 8,850.00                      | 8,692.08            | 7,876.00            | 7,875.11            | 32.06           | 27.77       | -24.67                | 3,089.81                          | 5,818.32   | 6,256.12             | 6,196.65              | 59.47                   | 105.201           |                    |         |
| 8,900.00                      | 8,723.44            | 7,876.00            | 7,875.11            | 32.19           | 27.77       | -26.53                | 3,089.81                          | 5,818.32   | 6,223.51             | 6,163.97              | 59.54                   | 104.526           |                    |         |
| 8,950.00                      | 8,751.29            | 7,876.00            | 7,875.11            | 32.34           | 27.77       | -28.84                | 3,089.81                          | 5,818.32   | 6,188.25             | 6,128.65              | 59.60                   | 103.823           |                    |         |
| 9,000.00                      | 8,775.42            | 7,876.00            | 7,875.11            | 32.50           | 27.77       | -31.73                | 3,089.81                          | 5,818.32   | 6,150.58             | 6,090.92              | 59.66                   | 103.095           |                    |         |
| 9,050.00                      | 8,795.64            | 7,876.00            | 7,875.11            | 32.67           | 27.77       | -35.38                | 3,089.81                          | 5,818.32   | 6,110.72             | 6,051.01              | 59.71                   | 102.343           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 18-GYRO-NS-CT |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,100.00                      | 8,811.80            | 7,876.00            | 7,875.11            | 32.87           | 27.77       | -40.03                | 3,089.81                          | 5,818.32   | 6,068.95             | 6,009.20              | 59.75                   | 101.572           |                    |         |
| 9,150.00                      | 8,823.77            | 7,876.00            | 7,875.11            | 33.10           | 27.77       | -46.00                | 3,089.81                          | 5,818.32   | 6,025.55             | 5,965.77              | 59.79                   | 100.782           |                    |         |
| 9,200.00                      | 8,831.47            | 7,876.00            | 7,875.11            | 33.34           | 27.77       | -53.65                | 3,089.81                          | 5,818.32   | 5,980.82             | 5,921.00              | 59.82                   | 99.977            |                    |         |
| 9,250.00                      | 8,834.84            | 7,876.00            | 7,875.11            | 33.60           | 27.77       | -63.31                | 3,089.81                          | 5,818.32   | 5,935.07             | 5,875.21              | 59.85                   | 99.159            |                    |         |
| 9,263.62                      | 8,835.00            | 7,876.00            | 7,875.11            | 33.67           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,922.47             | 5,862.61              | 59.86                   | 98.933            |                    |         |
| 9,300.00                      | 8,835.00            | 7,876.00            | 7,875.11            | 33.88           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,888.78             | 5,828.89              | 59.89                   | 98.334            |                    |         |
| 9,400.00                      | 8,835.00            | 7,876.00            | 7,875.11            | 34.53           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,796.33             | 5,736.37              | 59.96                   | 96.668            |                    |         |
| 9,500.00                      | 8,835.00            | 7,876.00            | 7,875.11            | 35.30           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,704.14             | 5,644.08              | 60.06                   | 94.974            |                    |         |
| 9,600.00                      | 8,835.00            | 7,876.00            | 7,875.11            | 36.17           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,612.22             | 5,552.03              | 60.18                   | 93.252            |                    |         |
| 9,700.00                      | 8,835.00            | 7,876.00            | 7,875.11            | 37.13           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,520.57             | 5,460.24              | 60.33                   | 91.500            |                    |         |
| 9,800.00                      | 8,835.00            | 7,876.00            | 7,875.11            | 38.18           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,429.22             | 5,368.71              | 60.51                   | 89.719            |                    |         |
| 9,900.00                      | 8,835.00            | 7,876.00            | 7,875.11            | 39.31           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,338.19             | 5,277.46              | 60.72                   | 87.908            |                    |         |
| 10,000.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 40.51           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,247.47             | 5,186.50              | 60.97                   | 86.068            |                    |         |
| 10,100.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 41.78           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,157.10             | 5,095.86              | 61.25                   | 84.199            |                    |         |
| 10,200.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 43.10           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,067.10             | 5,005.53              | 61.57                   | 82.302            |                    |         |
| 10,300.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 44.49           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,977.47             | 4,915.55              | 61.93                   | 80.378            |                    |         |
| 10,400.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 45.92           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,888.25             | 4,825.92              | 62.33                   | 78.427            |                    |         |
| 10,500.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 47.39           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,799.45             | 4,736.67              | 62.78                   | 76.452            |                    |         |
| 10,600.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 48.91           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,711.10             | 4,647.83              | 63.27                   | 74.455            |                    |         |
| 10,700.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 50.47           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,623.23             | 4,559.40              | 63.82                   | 72.437            |                    |         |
| 10,800.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 52.06           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,535.86             | 4,471.43              | 64.43                   | 70.402            |                    |         |
| 10,900.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 53.68           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,449.02             | 4,383.93              | 65.09                   | 68.352            |                    |         |
| 11,000.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 55.32           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,362.74             | 4,296.93              | 65.81                   | 66.291            |                    |         |
| 11,100.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 57.00           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,277.06             | 4,210.46              | 66.60                   | 64.221            |                    |         |
| 11,200.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 58.70           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,192.02             | 4,124.56              | 67.45                   | 62.149            |                    |         |
| 11,300.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 60.41           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,107.64             | 4,039.27              | 68.37                   | 60.076            |                    |         |
| 11,400.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 62.15           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,023.99             | 3,954.62              | 69.37                   | 58.007            |                    |         |
| 11,500.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 63.91           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,941.10             | 3,870.66              | 70.44                   | 55.948            |                    |         |
| 11,600.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 65.69           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,859.02             | 3,787.42              | 71.59                   | 53.902            |                    |         |
| 11,700.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 67.47           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,777.80             | 3,704.97              | 72.83                   | 51.874            |                    |         |
| 11,800.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 69.28           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,697.50             | 3,623.35              | 74.15                   | 49.868            |                    |         |
| 11,900.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 71.09           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,618.18             | 3,542.63              | 75.55                   | 47.890            |                    |         |
| 12,000.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 72.92           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,539.92             | 3,462.87              | 77.05                   | 45.944            |                    |         |
| 12,100.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 74.76           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,462.77             | 3,384.13              | 78.64                   | 44.034            |                    |         |
| 12,200.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 76.61           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,386.81             | 3,306.49              | 80.32                   | 42.164            |                    |         |
| 12,300.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 78.47           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,312.14             | 3,230.03              | 82.11                   | 40.339            |                    |         |
| 12,400.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 80.34           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,238.83             | 3,154.84              | 83.99                   | 38.561            |                    |         |
| 12,500.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 82.22           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,166.98             | 3,081.00              | 85.98                   | 36.836            |                    |         |
| 12,600.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 84.11           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,096.69             | 3,008.63              | 88.06                   | 35.165            |                    |         |
| 12,700.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 86.00           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,028.08             | 2,937.83              | 90.25                   | 33.553            |                    |         |
| 12,800.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 87.90           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,961.25             | 2,868.72              | 92.54                   | 32.001            |                    |         |
| 12,900.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 89.81           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,896.34             | 2,801.41              | 94.92                   | 30.513            |                    |         |
| 13,000.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 91.72           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,833.46             | 2,736.06              | 97.41                   | 29.089            |                    |         |
| 13,100.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 93.64           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,772.77             | 2,672.79              | 99.98                   | 27.733            |                    |         |
| 13,200.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 95.56           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,714.41             | 2,611.76              | 102.64                  | 26.445            |                    |         |
| 13,300.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 97.49           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,658.53             | 2,553.14              | 105.39                  | 25.226            |                    |         |
| 13,400.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 99.42           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,605.29             | 2,497.09              | 108.20                  | 24.078            |                    |         |
| 13,500.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 101.36          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,554.85             | 2,443.78              | 111.08                  | 23.001            |                    |         |
| 13,600.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 103.30          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,507.39             | 2,393.40              | 114.00                  | 21.996            |                    |         |
| 13,700.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 105.25          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,463.08             | 2,346.14              | 116.95                  | 21.061            |                    |         |
| 13,800.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 107.20          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,422.09             | 2,302.18              | 119.91                  | 20.199            |                    |         |
| 13,900.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 109.15          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,384.59             | 2,261.72              | 122.87                  | 19.407            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 4H - Pilot - Pilot |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | <b>Offset Site Error:</b> | 5.00 ft |
|----------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|---------------------------|---------|
| <b>Survey Program:</b> 18-GYRO-NS-CT                                                   |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                              |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning                   |         |
| Measured Depth (ft)                                                                    | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                           |         |
| 14,000.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 111.10          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,350.75             | 2,224.95              | 125.81                  | 18.685            |                           |         |
| 14,100.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 113.06          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,320.73             | 2,192.04              | 128.69                  | 18.034            |                           |         |
| 14,200.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 115.03          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,294.68             | 2,163.18              | 131.50                  | 17.450            |                           |         |
| 14,300.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 116.99          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,272.73             | 2,138.52              | 134.21                  | 16.934            |                           |         |
| 14,400.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 118.96          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,255.00             | 2,118.21              | 136.80                  | 16.484            |                           |         |
| 14,500.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 120.93          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,241.60             | 2,102.37              | 139.24                  | 16.099            |                           |         |
| 14,600.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 122.90          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,232.61             | 2,091.10              | 141.51                  | 15.777            |                           |         |
| 14,700.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 124.88          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,228.07             | 2,084.47              | 143.60                  | 15.516            |                           |         |
| 14,751.24                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 125.89          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,227.48             | 2,082.89              | 144.59                  | 15.405 CC         |                           |         |
| 14,800.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 126.86          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,228.01             | 2,082.53              | 145.48                  | 15.315 ES         |                           |         |
| 14,900.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 128.84          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,232.44             | 2,085.29              | 147.15                  | 15.171            |                           |         |
| 15,000.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 130.82          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,241.33             | 2,092.73              | 148.60                  | 15.083            |                           |         |
| 15,100.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 132.80          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,254.62             | 2,104.80              | 149.82                  | 15.049 SF         |                           |         |
| 15,200.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 134.79          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,272.23             | 2,121.43              | 150.81                  | 15.067            |                           |         |
| 15,300.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 136.78          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,294.08             | 2,142.50              | 151.58                  | 15.135            |                           |         |
| 15,400.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 138.76          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,320.03             | 2,167.90              | 152.13                  | 15.250            |                           |         |
| 15,500.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 140.76          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,349.96             | 2,197.48              | 152.48                  | 15.411            |                           |         |
| 15,600.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 142.75          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,383.71             | 2,231.07              | 152.64                  | 15.617            |                           |         |
| 15,700.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 144.74          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,421.12             | 2,268.50              | 152.62                  | 15.864            |                           |         |
| 15,800.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 146.74          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,462.02             | 2,309.58              | 152.44                  | 16.151            |                           |         |
| 15,900.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 148.73          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,506.25             | 2,354.14              | 152.11                  | 16.476            |                           |         |
| 16,000.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 150.73          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,553.64             | 2,401.98              | 151.66                  | 16.838            |                           |         |
| 16,100.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 152.73          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,604.00             | 2,452.90              | 151.10                  | 17.234            |                           |         |
| 16,200.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 154.73          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,657.17             | 2,506.74              | 150.43                  | 17.663            |                           |         |
| 16,300.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 156.73          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,712.99             | 2,563.30              | 149.69                  | 18.124            |                           |         |
| 16,400.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 158.74          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,771.29             | 2,622.41              | 148.88                  | 18.614            |                           |         |
| 16,500.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 160.74          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,831.93             | 2,683.92              | 148.01                  | 19.133            |                           |         |
| 16,600.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 162.74          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,894.75             | 2,747.65              | 147.10                  | 19.679            |                           |         |
| 16,700.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 164.75          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,959.61             | 2,813.46              | 146.16                  | 20.250            |                           |         |
| 16,800.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 166.76          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,026.40             | 2,881.21              | 145.18                  | 20.845            |                           |         |
| 16,900.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 168.77          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,094.97             | 2,950.77              | 144.20                  | 21.464            |                           |         |
| 17,000.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 170.77          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,165.21             | 3,022.02              | 143.20                  | 22.104            |                           |         |
| 17,100.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 172.78          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,237.02             | 3,094.83              | 142.19                  | 22.765            |                           |         |
| 17,200.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 174.79          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,310.30             | 3,169.11              | 141.19                  | 23.446            |                           |         |
| 17,300.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 176.81          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,384.94             | 3,244.75              | 140.19                  | 24.145            |                           |         |
| 17,400.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 178.82          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,460.86             | 3,321.66              | 139.20                  | 24.862            |                           |         |
| 17,500.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 180.83          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,537.98             | 3,399.76              | 138.22                  | 25.597            |                           |         |
| 17,600.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 182.84          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,616.22             | 3,478.97              | 137.26                  | 26.347            |                           |         |
| 17,700.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 184.86          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,695.52             | 3,559.21              | 136.31                  | 27.112            |                           |         |
| 17,800.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 186.87          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,775.79             | 3,640.42              | 135.37                  | 27.892            |                           |         |
| 17,900.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 188.89          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,856.99             | 3,722.53              | 134.46                  | 28.685            |                           |         |
| 18,000.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 190.91          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,939.05             | 3,805.48              | 133.57                  | 29.492            |                           |         |
| 18,100.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 192.92          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,021.92             | 3,889.23              | 132.69                  | 30.310            |                           |         |
| 18,200.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 194.94          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,105.56             | 3,973.72              | 131.84                  | 31.141            |                           |         |
| 18,300.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 196.96          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,189.91             | 4,058.90              | 131.01                  | 31.983            |                           |         |
| 18,400.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 198.98          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,274.94             | 4,144.74              | 130.20                  | 32.835            |                           |         |
| 18,500.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 201.00          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,360.60             | 4,231.20              | 129.41                  | 33.697            |                           |         |
| 18,600.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 203.02          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,446.86             | 4,318.23              | 128.64                  | 34.569            |                           |         |
| 18,700.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 205.04          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,533.69             | 4,405.80              | 127.89                  | 35.450            |                           |         |
| 18,800.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 207.06          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,621.05             | 4,493.89              | 127.16                  | 36.340            |                           |         |
| 18,900.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 209.08          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,708.91             | 4,582.46              | 126.46                  | 37.238            |                           |         |
| 19,000.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 211.10          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,797.25             | 4,671.48              | 125.77                  | 38.143            |                           |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 4H - Pilot - Pilot |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Site Error:</b> | 5.00 ft |
|----------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|-----------------------------------------|---------------|-------------------------|--------------------------|----------------------------|---------------------------|---------|
| Survey Program: 18-GYRO-NS-CT                                                          |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                              |                        | Offset                 |                        | Semi Major Axis   |                |                          | Distance                                |               |                         |                          |                            |                           | Warning |
| Measured Depth<br>(ft)                                                                 | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between Centres<br>(ft) | Between Ellipses<br>(ft) | Minimum Separation<br>(ft) | Separation Factor         |         |
| 19,100.00                                                                              | 8,835.00               | 7,876.00               | 7,875.11               | 213.12            | 27.77          | -66.31                   | 3,089.81                                | 5,818.32      | 4,886.04                | 4,760.93                 | 125.10                     | 39.056                    |         |
| 19,200.00                                                                              | 8,835.00               | 7,876.00               | 7,875.11               | 215.15            | 27.77          | -66.31                   | 3,089.81                                | 5,818.32      | 4,975.25                | 4,850.79                 | 124.46                     | 39.976                    |         |
| 19,308.27                                                                              | 8,835.00               | 7,876.00               | 7,875.11               | 217.34            | 27.77          | -66.31                   | 3,089.81                                | 5,818.32      | 5,072.29                | 4,948.52                 | 123.78                     | 40.980                    |         |



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 18-GYRO-NS-CT, 4369-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                                         | 0.00                | 0.00                | 0.00                | 0.50            | 5.02        | 61.82                 | 3,098.47                          | 5,783.09   | 6,561.16             |                       |                         |                   |                    |         |
| 100.00                                       | 100.00              | 9.67                | 9.67                | 0.52            | 5.02        | 61.82                 | 3,098.48                          | 5,783.10   | 6,560.91             | 6,555.37              | 5.54                    | 1,183.697         |                    |         |
| 200.00                                       | 200.00              | 83.56               | 83.56               | 0.70            | 5.03        | 61.82                 | 3,098.88                          | 5,783.50   | 6,561.60             | 6,555.87              | 5.73                    | 1,145.501         |                    |         |
| 300.00                                       | 300.00              | 189.18              | 189.17              | 0.99            | 5.04        | 61.82                 | 3,099.08                          | 5,784.32   | 6,562.37             | 6,556.35              | 6.03                    | 1,088.339         |                    |         |
| 400.00                                       | 400.00              | 288.98              | 288.98              | 1.31            | 5.08        | 61.82                 | 3,098.99                          | 5,785.15   | 6,563.07             | 6,556.67              | 6.39                    | 1,026.684         |                    |         |
| 500.00                                       | 500.00              | 386.93              | 386.92              | 1.65            | 5.15        | 61.83                 | 3,099.00                          | 5,785.95   | 6,563.79             | 6,556.99              | 6.79                    | 966.316           |                    |         |
| 600.00                                       | 600.00              | 491.69              | 491.68              | 1.99            | 5.24        | 61.83                 | 3,098.98                          | 5,786.79   | 6,564.49             | 6,557.26              | 7.23                    | 908.113           |                    |         |
| 700.00                                       | 700.00              | 596.24              | 596.22              | 2.34            | 5.35        | 61.83                 | 3,098.78                          | 5,787.62   | 6,565.10             | 6,557.41              | 7.69                    | 853.455           |                    |         |
| 800.00                                       | 800.00              | 740.90              | 740.88              | 2.69            | 5.55        | 61.83                 | 3,099.49                          | 5,788.04   | 6,565.69             | 6,557.45              | 8.24                    | 796.975           |                    |         |
| 900.00                                       | 900.00              | 883.72              | 883.69              | 3.04            | 5.78        | 61.83                 | 3,099.34                          | 5,787.08   | 6,564.95             | 6,556.13              | 8.82                    | 744.428           |                    |         |
| 1,000.00                                     | 1,000.00            | 953.30              | 953.27              | 3.40            | 5.90        | 61.83                 | 3,098.70                          | 5,787.16   | 6,564.56             | 6,555.26              | 9.30                    | 706.144           |                    |         |
| 1,018.08                                     | 1,018.08            | 953.30              | 953.27              | 3.46            | 5.90        | 61.83                 | 3,098.70                          | 5,787.16   | 6,564.53             | 6,555.17              | 9.36                    | 701.299           |                    |         |
| 1,100.00                                     | 1,100.00            | 1,029.12            | 1,029.09            | 3.75            | 6.04        | 61.84                 | 3,098.01                          | 5,787.59   | 6,564.59             | 6,554.80              | 9.79                    | 670.234           |                    |         |
| 1,200.00                                     | 1,200.00            | 1,129.89            | 1,129.85            | 4.11            | 6.24        | 61.85                 | 3,097.46                          | 5,787.99   | 6,564.69             | 6,554.33              | 10.35                   | 634.124           |                    |         |
| 1,300.00                                     | 1,300.00            | 1,225.37            | 1,225.33            | 4.46            | 6.45        | 61.85                 | 3,097.19                          | 5,788.25   | 6,564.80             | 6,553.88              | 10.91                   | 601.617           |                    |         |
| 1,400.00                                     | 1,400.00            | 1,321.64            | 1,321.60            | 4.82            | 6.67        | 61.85                 | 3,097.00                          | 5,788.55   | 6,564.98             | 6,553.49              | 11.48                   | 571.652           |                    |         |
| 1,500.00                                     | 1,500.00            | 1,420.59            | 1,420.55            | 5.18            | 6.90        | 61.86                 | 3,096.78                          | 5,788.91   | 6,565.19             | 6,553.12              | 12.07                   | 543.792           |                    |         |
| 1,600.00                                     | 1,600.00            | 1,527.00            | 1,526.96            | 5.53            | 7.16        | 61.86                 | 3,096.33                          | 5,789.37   | 6,565.38             | 6,552.69              | 12.69                   | 517.379           |                    |         |
| 1,700.00                                     | 1,700.00            | 1,645.52            | 1,645.48            | 5.89            | 7.46        | 61.87                 | 3,095.68                          | 5,789.69   | 6,565.35             | 6,552.01              | 13.35                   | 491.901           |                    |         |
| 1,800.00                                     | 1,800.00            | 1,761.51            | 1,761.46            | 6.25            | 7.76        | 61.87                 | 3,095.09                          | 5,789.65   | 6,565.08             | 6,551.07              | 14.01                   | 468.690           |                    |         |
| 1,900.00                                     | 1,900.00            | 1,861.65            | 1,861.60            | 6.61            | 8.03        | 61.87                 | 3,094.84                          | 5,789.28   | 6,564.64             | 6,550.01              | 14.63                   | 448.605           |                    |         |
| 2,000.00                                     | 2,000.00            | 1,961.72            | 1,961.67            | 6.96            | 8.31        | 61.87                 | 3,094.89                          | 5,788.82   | 6,564.25             | 6,548.99              | 15.27                   | 430.001           |                    |         |
| 2,100.00                                     | 2,099.99            | 2,066.48            | 2,066.43            | 7.32            | 8.60        | 74.66                 | 3,094.99                          | 5,788.24   | 6,563.59             | 6,547.67              | 15.92                   | 412.381           |                    |         |
| 2,200.00                                     | 2,199.96            | 2,172.84            | 2,172.79            | 7.68            | 8.90        | 74.69                 | 3,095.11                          | 5,787.55   | 6,562.37             | 6,545.79              | 16.58                   | 395.883           |                    |         |
| 2,300.00                                     | 2,299.86            | 2,273.33            | 2,273.27            | 8.04            | 9.19        | 74.74                 | 3,095.32                          | 5,786.77   | 6,560.64             | 6,543.41              | 17.22                   | 380.888           |                    |         |
| 2,400.00                                     | 2,399.68            | 2,366.26            | 2,366.20            | 8.39            | 9.47        | 74.80                 | 3,095.58                          | 5,786.07   | 6,558.50             | 6,540.64              | 17.85                   | 367.337           |                    |         |
| 2,500.00                                     | 2,499.37            | 2,455.94            | 2,455.87            | 8.75            | 9.73        | 74.88                 | 3,095.88                          | 5,785.51   | 6,556.04             | 6,537.57              | 18.48                   | 354.820           |                    |         |
| 2,600.00                                     | 2,598.90            | 2,563.11            | 2,563.05            | 9.11            | 10.06       | 74.99                 | 3,096.11                          | 5,784.92   | 6,553.15             | 6,533.99              | 19.16                   | 342.103           |                    |         |
| 2,700.00                                     | 2,698.26            | 2,664.76            | 2,664.70            | 9.46            | 10.37       | 75.12                 | 3,096.11                          | 5,784.39   | 6,549.75             | 6,529.93              | 19.82                   | 330.451           |                    |         |
| 2,800.00                                     | 2,797.40            | 2,764.23            | 2,764.16            | 9.82            | 10.67       | 75.26                 | 3,096.22                          | 5,783.77   | 6,545.89             | 6,525.41              | 20.48                   | 319.582           |                    |         |
| 2,900.00                                     | 2,896.30            | 2,900.00            | 4,980.63            | 10.18           | 18.06       | 103.76                | 275.86                            | 6,143.58   | 6,526.65             | 6,499.41              | 27.24                   | 239.614           |                    |         |
| 3,000.00                                     | 2,994.93            | 3,000.00            | 4,980.42            | 10.54           | 16.62       | 103.92                | 290.68                            | 6,143.16   | 6,497.80             | 6,471.52              | 26.28                   | 247.241           |                    |         |
| 3,100.00                                     | 3,093.26            | 3,100.00            | 4,978.33            | 10.90           | 15.61       | 102.76                | 449.32                            | 6,136.74   | 6,470.55             | 6,444.88              | 25.67                   | 252.071           |                    |         |
| 3,195.07                                     | 3,186.42            | 7,420.03            | 4,978.31            | 11.24           | 44.32       | 102.97                | 452.87                            | 6,136.63   | 6,446.20             | 6,392.66              | 53.54                   | 120.391           |                    |         |
| 3,200.00                                     | 3,191.25            | 7,417.42            | 4,978.29            | 11.26           | 44.28       | 102.95                | 455.48                            | 6,136.50   | 6,444.98             | 6,391.44              | 53.54                   | 120.387           |                    |         |
| 3,300.00                                     | 3,289.08            | 7,364.55            | 4,977.80            | 11.62           | 43.55       | 102.48                | 508.26                            | 6,133.65   | 6,420.86             | 6,367.48              | 53.37                   | 120.300           |                    |         |
| 3,400.00                                     | 3,386.91            | 7,339.96            | 4,977.56            | 11.98           | 43.21       | 102.25                | 532.82                            | 6,132.24   | 6,398.08             | 6,344.50              | 53.57                   | 119.429           |                    |         |
| 3,500.00                                     | 3,484.74            | 7,326.09            | 4,977.42            | 12.35           | 43.02       | 102.13                | 546.67                            | 6,131.45   | 6,376.73             | 6,322.83              | 53.90                   | 118.296           |                    |         |
| 3,600.00                                     | 3,582.58            | 7,312.22            | 4,977.28            | 12.72           | 42.83       | 102.00                | 560.51                            | 6,130.67   | 6,356.85             | 6,302.62              | 54.23                   | 117.216           |                    |         |
| 3,700.00                                     | 3,680.41            | 7,298.35            | 4,977.14            | 13.09           | 42.64       | 101.88                | 574.36                            | 6,129.91   | 6,338.44             | 6,283.89              | 54.55                   | 116.189           |                    |         |
| 3,800.00                                     | 3,778.24            | 7,284.49            | 4,977.00            | 13.46           | 42.45       | 101.76                | 588.20                            | 6,129.16   | 6,321.52             | 6,266.65              | 54.87                   | 115.216           |                    |         |
| 3,900.00                                     | 3,876.08            | 7,270.64            | 4,976.87            | 13.83           | 42.26       | 101.63                | 602.03                            | 6,128.42   | 6,306.10             | 6,250.92              | 55.17                   | 114.296           |                    |         |
| 4,000.00                                     | 3,973.91            | 7,256.00            | 4,976.72            | 14.21           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,292.18             | 6,236.72              | 55.46                   | 113.450           |                    |         |
| 4,100.00                                     | 4,071.74            | 7,256.00            | 4,976.72            | 14.58           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,279.80             | 6,223.87              | 55.94                   | 112.269           |                    |         |
| 4,200.00                                     | 4,169.57            | 7,256.00            | 4,976.72            | 14.96           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,268.99             | 6,212.60              | 56.40                   | 111.153           |                    |         |
| 4,300.00                                     | 4,267.41            | 7,256.00            | 4,976.72            | 15.33           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,259.77             | 6,202.91              | 56.85                   | 110.101           |                    |         |
| 4,400.00                                     | 4,365.24            | 7,256.00            | 4,976.72            | 15.71           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,252.12             | 6,194.82              | 57.30                   | 109.110           |                    |         |
| 4,500.00                                     | 4,463.07            | 7,256.00            | 4,976.72            | 16.09           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,246.07             | 6,188.34              | 57.74                   | 108.181           |                    |         |
| 4,600.00                                     | 4,560.90            | 7,256.00            | 4,976.72            | 16.47           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,241.62             | 6,183.46              | 58.16                   | 107.312           |                    |         |
| 4,700.00                                     | 4,658.74            | 7,256.00            | 4,976.72            | 16.85           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,238.77             | 6,180.19              | 58.58                   | 106.503           |                    |         |
| 4,800.00                                     | 4,756.57            | 7,218.39            | 4,976.55            | 17.23           | 41.56       | 101.16                | 654.22                            | 6,126.05   | 6,237.05             | 6,178.55              | 58.50                   | 106.614           |                    |         |
| 4,835.96                                     | 4,791.75            | 7,216.60            | 4,976.55            | 17.36           | 41.53       | 101.14                | 656.01                            | 6,125.99   | 6,236.95             | 6,178.32              | 58.62                   | 106.394           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 18-GYRO-NS-CT, 4369-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 4,900.00                                     | 4,854.40            | 7,213.38            | 4,976.56            | 17.61           | 41.49       | 101.11                | 659.23                            | 6,125.89   | 6,237.27             | 6,178.44              | 58.83                   | 106.021           |                    |         |
| 5,000.00                                     | 4,952.23            | 7,208.31            | 4,976.58            | 17.99           | 41.42       | 101.07                | 664.30                            | 6,125.74   | 6,239.08             | 6,179.93              | 59.15                   | 105.483           |                    |         |
| 5,100.00                                     | 5,050.07            | 7,203.17            | 4,976.60            | 18.37           | 41.35       | 101.02                | 669.44                            | 6,125.60   | 6,242.47             | 6,183.02              | 59.45                   | 104.999           |                    |         |
| 5,200.00                                     | 5,147.95            | 7,197.95            | 4,976.63            | 18.75           | 41.28       | 100.98                | 674.65                            | 6,125.47   | 6,247.45             | 6,187.71              | 59.74                   | 104.569           |                    |         |
| 5,300.00                                     | 5,245.73            | 7,191.00            | 4,977.09            | 19.14           | 40.79       | 100.64                | 711.59                            | 6,124.92   | 6,254.32             | 6,194.70              | 59.62                   | 104.903           |                    |         |
| 5,400.00                                     | 5,343.56            | 7,161.00            | 4,977.09            | 19.52           | 40.79       | 100.64                | 711.59                            | 6,124.92   | 6,262.35             | 6,202.39              | 59.96                   | 104.450           |                    |         |
| 5,500.00                                     | 5,441.40            | 7,161.00            | 4,977.09            | 19.90           | 40.79       | 100.64                | 711.59                            | 6,124.92   | 6,271.96             | 6,211.68              | 60.28                   | 104.050           |                    |         |
| 5,600.00                                     | 5,539.23            | 7,161.00            | 4,977.09            | 20.29           | 40.79       | 100.64                | 711.59                            | 6,124.92   | 6,283.14             | 6,222.55              | 60.59                   | 103.701           |                    |         |
| 5,700.00                                     | 5,637.06            | 7,161.00            | 4,977.09            | 20.67           | 40.79       | 100.64                | 711.59                            | 6,124.92   | 6,295.90             | 6,235.01              | 60.89                   | 103.402           |                    |         |
| 5,800.00                                     | 5,734.90            | 6,404.00            | 4,985.02            | 21.05           | 30.74       | 93.88                 | 1,464.97                          | 6,072.35   | 6,309.98             | 6,258.48              | 51.50                   | 122.531           |                    |         |
| 5,900.00                                     | 5,832.73            | 6,404.00            | 4,985.02            | 21.44           | 30.74       | 93.88                 | 1,464.97                          | 6,072.35   | 6,323.27             | 6,271.48              | 51.80                   | 122.075           |                    |         |
| 6,000.00                                     | 5,930.56            | 6,384.27            | 4,985.08            | 21.83           | 30.48       | 93.70                 | 1,484.54                          | 6,069.84   | 6,338.08             | 6,286.24              | 51.84                   | 122.273           |                    |         |
| 6,100.00                                     | 6,028.39            | 6,368.75            | 4,985.21            | 22.21           | 30.28       | 93.57                 | 1,499.93                          | 6,067.89   | 6,354.37             | 6,302.46              | 51.92                   | 122.393           |                    |         |
| 6,200.00                                     | 6,126.23            | 6,352.64            | 4,985.40            | 22.60           | 30.06       | 93.42                 | 1,515.92                          | 6,065.90   | 6,372.14             | 6,320.16              | 51.98                   | 122.582           |                    |         |
| 6,300.00                                     | 6,224.06            | 6,335.90            | 4,985.68            | 22.98           | 29.84       | 93.27                 | 1,532.53                          | 6,063.85   | 6,391.37             | 6,339.34              | 52.03                   | 122.838           |                    |         |
| 6,400.00                                     | 6,321.89            | 6,318.50            | 4,986.04            | 23.37           | 29.62       | 93.12                 | 1,549.80                          | 6,061.75   | 6,412.04             | 6,359.98              | 52.06                   | 123.163           |                    |         |
| 6,500.00                                     | 6,419.72            | 6,299.62            | 4,986.52            | 23.76           | 29.37       | 92.95                 | 1,568.54                          | 6,059.51   | 6,434.14             | 6,382.07              | 52.07                   | 123.572           |                    |         |
| 6,600.00                                     | 6,517.56            | 6,279.99            | 4,987.02            | 24.14           | 29.12       | 92.78                 | 1,588.03                          | 6,057.19   | 6,457.64             | 6,405.58              | 52.06                   | 124.046           |                    |         |
| 6,700.00                                     | 6,615.39            | 6,260.30            | 4,987.53            | 24.53           | 28.86       | 92.60                 | 1,607.57                          | 6,054.87   | 6,482.52             | 6,430.48              | 52.04                   | 124.567           |                    |         |
| 6,800.00                                     | 6,713.22            | 6,240.57            | 4,988.05            | 24.92           | 28.61       | 92.43                 | 1,627.17                          | 6,052.57   | 6,508.78             | 6,456.77              | 52.01                   | 125.135           |                    |         |
| 6,900.00                                     | 6,811.05            | 6,220.78            | 4,988.58            | 25.30           | 28.36       | 92.25                 | 1,646.81                          | 6,050.26   | 6,536.39             | 6,484.41              | 51.98                   | 125.749           |                    |         |
| 7,000.00                                     | 6,908.89            | 6,218.00            | 4,988.65            | 25.69           | 28.32       | 92.23                 | 1,649.57                          | 6,049.94   | 6,565.37             | 6,513.22              | 52.14                   | 125.907           |                    |         |
| 7,100.00                                     | 7,006.72            | 5,751.00            | 4,988.46            | 26.08           | 22.59       | 88.07                 | 2,110.13                          | 5,976.96   | 6,594.71             | 6,547.82              | 46.89                   | 140.637           |                    |         |
| 7,200.00                                     | 7,104.55            | 5,717.37            | 4,987.54            | 26.47           | 22.21       | 87.77                 | 2,143.02                          | 5,970.02   | 6,624.75             | 6,578.01              | 46.73                   | 141.751           |                    |         |
| 7,216.87                                     | 7,121.05            | 5,716.30            | 4,987.51            | 26.53           | 22.20       | 87.76                 | 2,144.06                          | 5,969.81   | 6,629.98             | 6,583.22              | 46.76                   | 141.794           |                    |         |
| 7,300.00                                     | 7,202.57            | 5,711.32            | 4,987.40            | 26.85           | 22.14       | 88.14                 | 2,148.94                          | 5,968.82   | 6,656.33             | 6,609.47              | 46.87                   | 142.025           |                    |         |
| 7,400.00                                     | 7,301.06            | 5,706.07            | 4,987.29            | 27.23           | 22.08       | 88.61                 | 2,154.10                          | 5,967.78   | 6,689.33             | 6,642.33              | 47.00                   | 142.339           |                    |         |
| 7,500.00                                     | 7,399.97            | 5,701.63            | 4,987.20            | 27.61           | 22.03       | 89.12                 | 2,158.44                          | 5,966.92   | 6,723.70             | 6,676.58              | 47.12                   | 142.694           |                    |         |
| 7,600.00                                     | 7,499.23            | 5,698.04            | 4,987.13            | 27.98           | 21.99       | 89.66                 | 2,161.97                          | 5,966.23   | 6,759.41             | 6,712.17              | 47.24                   | 143.086           |                    |         |
| 7,700.00                                     | 7,598.77            | 5,695.32            | 4,987.08            | 28.34           | 21.96       | 90.24                 | 2,164.64                          | 5,965.70   | 6,796.41             | 6,749.05              | 47.36                   | 143.513           |                    |         |
| 7,800.00                                     | 7,698.53            | 5,693.49            | 4,987.05            | 28.70           | 21.94       | 90.84                 | 2,166.43                          | 5,965.35   | 6,834.66             | 6,787.18              | 47.47                   | 143.973           |                    |         |
| 7,900.00                                     | 7,798.44            | 5,692.58            | 4,987.03            | 29.05           | 21.93       | 91.48                 | 2,167.33                          | 5,965.18   | 6,874.11             | 6,826.53              | 47.58                   | 144.461           |                    |         |
| 8,000.00                                     | 7,898.42            | 5,692.60            | 4,987.03            | 29.39           | 21.93       | 92.14                 | 2,167.30                          | 5,965.18   | 6,914.73             | 6,867.03              | 47.70                   | 144.976           |                    |         |
| 8,013.58                                     | 7,912.00            | 5,692.68            | 4,987.04            | 29.43           | 21.93       | 79.46                 | 2,167.23                          | 5,965.20   | 6,920.33             | 6,872.62              | 47.71                   | 145.048           |                    |         |
| 8,100.00                                     | 7,998.42            | 5,693.24            | 4,987.05            | 29.73           | 21.94       | 79.46                 | 2,166.68                          | 5,965.30   | 6,956.49             | 6,908.69              | 47.80                   | 145.518           |                    |         |
| 8,200.00                                     | 8,098.42            | 5,693.89            | 4,987.06            | 30.07           | 21.95       | 79.47                 | 2,166.04                          | 5,965.43   | 6,999.43             | 6,951.52              | 47.91                   | 146.095           |                    |         |
| 8,300.00                                     | 8,198.42            | 5,694.56            | 4,987.07            | 30.41           | 21.95       | 79.47                 | 2,165.39                          | 5,965.56   | 7,043.54             | 6,995.52              | 48.01                   | 146.706           |                    |         |
| 8,363.62                                     | 8,262.04            | 5,694.99            | 4,987.08            | 30.62           | 21.96       | 79.48                 | 2,164.96                          | 5,965.64   | 7,072.18             | 7,024.11              | 48.07                   | 147.111           |                    |         |
| 8,400.00                                     | 8,298.40            | 5,695.32            | 4,987.08            | 30.75           | 21.96       | -9.88                 | 2,164.64                          | 5,965.70   | 7,087.75             | 7,039.65              | 48.10                   | 147.340           |                    |         |
| 8,450.00                                     | 8,348.10            | 5,696.04            | 4,987.10            | 30.91           | 21.97       | -9.54                 | 2,163.93                          | 5,965.84   | 7,105.99             | 7,057.85              | 48.14                   | 147.603           |                    |         |
| 8,500.00                                     | 8,397.14            | 5,697.07            | 4,987.11            | 31.07           | 21.98       | -9.29                 | 2,162.92                          | 5,966.04   | 7,120.48             | 7,072.30              | 48.18                   | 147.791           |                    |         |
| 8,550.00                                     | 8,445.15            | 5,698.41            | 4,987.14            | 31.23           | 22.00       | -9.10                 | 2,161.60                          | 5,966.30   | 7,131.14             | 7,082.92              | 48.21                   | 147.904           |                    |         |
| 8,600.00                                     | 8,491.77            | 5,700.06            | 4,987.17            | 31.38           | 22.02       | -8.98                 | 2,159.98                          | 5,966.62   | 7,137.89             | 7,089.64              | 48.25                   | 147.942           |                    |         |
| 8,650.00                                     | 8,536.65            | 5,702.02            | 4,987.21            | 31.52           | 22.04       | -8.92                 | 2,158.07                          | 5,966.99   | 7,140.70             | 7,092.42              | 48.28                   | 147.909           |                    |         |
| 8,700.00                                     | 8,579.43            | 5,704.27            | 4,987.25            | 31.66           | 22.06       | -8.92                 | 2,155.86                          | 5,967.43   | 7,139.55             | 7,091.24              | 48.30                   | 147.806           |                    |         |
| 8,750.00                                     | 8,619.80            | 5,706.82            | 4,987.31            | 31.80           | 22.09       | -8.98                 | 2,153.36                          | 5,967.93   | 7,134.44             | 7,086.12              | 48.33                   | 147.634           |                    |         |
| 8,800.00                                     | 8,657.44            | 5,709.64            | 4,987.37            | 31.93           | 22.12       | -9.10                 | 2,150.59                          | 5,968.49   | 7,125.42             | 7,077.07              | 48.34                   | 147.394           |                    |         |
| 8,850.00                                     | 8,692.08            | 5,712.73            | 4,987.43            | 32.06           | 22.16       | -9.29                 | 2,147.56                          | 5,969.10   | 7,112.52             | 7,064.16              | 48.36                   | 147.088           |                    |         |
| 8,900.00                                     | 8,723.44            | 5,716.08            | 4,987.51            | 32.19           | 22.20       | -9.55                 | 2,144.28                          | 5,969.76   | 7,095.83             | 7,047.46              | 48.36                   | 146.718           |                    |         |
| 8,950.00                                     | 8,751.29            | 5,719.66            | 4,987.59            | 32.34           | 22.24       | -9.90                 | 2,140.78                          | 5,970.48   | 7,075.44             | 7,027.08              | 48.37                   | 146.284           |                    |         |
| 9,000.00                                     | 8,775.42            | 5,723.45            | 4,987.69            | 32.50           | 22.28       | -10.34                | 2,137.07                          | 5,971.24   | 7,051.49             | 7,003.12              | 48.37                   | 145.789           |                    |         |
| 9,050.00                                     | 8,795.64            | 5,751.00            | 4,988.46            | 32.67           | 22.59       | -10.68                | 2,110.13                          | 5,976.96   | 7,024.20             | 6,975.61              | 48.59                   | 144.550           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDCS Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 18-GYRO-NS-CT, 4369-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,100.00                                     | 8,811.80            | 5,751.00            | 4,988.46            | 32.87           | 22.59       | -11.43                | 2,110.13                          | 5,976.96   | 6,993.53             | 6,944.99              | 48.55                   | 144.061           |                    |         |
| 9,150.00                                     | 8,823.77            | 5,751.00            | 4,988.46            | 33.10           | 22.59       | -12.37                | 2,110.13                          | 5,976.96   | 6,959.81             | 6,911.31              | 48.49                   | 143.517           |                    |         |
| 9,200.00                                     | 8,831.47            | 5,751.00            | 4,988.46            | 33.34           | 22.59       | -13.57                | 2,110.13                          | 5,976.96   | 6,923.24             | 6,874.80              | 48.44                   | 142.922           |                    |         |
| 9,250.00                                     | 8,834.84            | 5,751.00            | 4,988.46            | 33.60           | 22.59       | -15.14                | 2,110.13                          | 5,976.96   | 6,884.06             | 6,835.67              | 48.39                   | 142.274           |                    |         |
| 9,263.62                                     | 8,835.00            | 5,751.00            | 4,988.46            | 33.67           | 22.59       | -15.65                | 2,110.13                          | 5,976.96   | 6,872.96             | 6,824.59              | 48.37                   | 142.081           |                    |         |
| 9,300.00                                     | 8,835.00            | 5,751.00            | 4,988.46            | 33.88           | 22.59       | -15.65                | 2,110.13                          | 5,976.96   | 6,843.14             | 6,794.81              | 48.33                   | 141.594           |                    |         |
| 9,400.00                                     | 8,835.00            | 5,856.46            | 4,992.64            | 34.53           | 23.85       | -14.20                | 2,007.09                          | 5,999.01   | 6,761.27             | 6,711.99              | 49.27                   | 137.223           |                    |         |
| 9,500.00                                     | 8,835.00            | 5,871.27            | 4,993.22            | 35.30           | 24.03       | -14.00                | 1,992.59                          | 6,002.01   | 6,679.77             | 6,630.47              | 49.30                   | 135.480           |                    |         |
| 9,600.00                                     | 8,835.00            | 6,185.95            | 4,989.52            | 36.17           | 27.92       | -9.46                 | 1,681.42                          | 6,046.43   | 6,598.30             | 6,545.96              | 52.34                   | 126.066           |                    |         |
| 9,700.00                                     | 8,835.00            | 6,189.15            | 4,989.44            | 37.13           | 27.96       | -9.41                 | 1,678.23                          | 6,046.76   | 6,517.16             | 6,464.92              | 52.23                   | 124.773           |                    |         |
| 9,800.00                                     | 8,835.00            | 6,218.00            | 4,988.65            | 38.18           | 28.32       | -8.99                 | 1,649.57                          | 6,049.94   | 6,436.69             | 6,384.31              | 52.38                   | 122.880           |                    |         |
| 9,900.00                                     | 8,835.00            | 6,218.00            | 4,988.65            | 39.31           | 28.32       | -8.99                 | 1,649.57                          | 6,049.94   | 6,356.58             | 6,304.33              | 52.25                   | 121.649           |                    |         |
| 10,000.00                                    | 8,835.00            | 6,218.00            | 4,988.65            | 40.51           | 28.32       | -8.99                 | 1,649.57                          | 6,049.94   | 6,277.05             | 6,224.91              | 52.13                   | 120.404           |                    |         |
| 10,100.00                                    | 8,835.00            | 6,218.00            | 4,988.65            | 41.78           | 28.32       | -8.99                 | 1,649.57                          | 6,049.94   | 6,198.10             | 6,146.08              | 52.02                   | 119.144           |                    |         |
| 10,200.00                                    | 8,835.00            | 6,218.00            | 4,988.65            | 43.10           | 28.32       | -8.99                 | 1,649.57                          | 6,049.94   | 6,119.77             | 6,067.85              | 51.92                   | 117.869           |                    |         |
| 10,300.00                                    | 8,835.00            | 6,218.00            | 4,988.65            | 44.49           | 28.32       | -8.99                 | 1,649.57                          | 6,049.94   | 6,042.08             | 5,990.25              | 51.83                   | 116.577           |                    |         |
| 10,400.00                                    | 8,835.00            | 6,218.00            | 4,988.65            | 45.92           | 28.32       | -8.99                 | 1,649.57                          | 6,049.94   | 5,965.05             | 5,913.30              | 51.75                   | 115.267           |                    |         |
| 10,500.00                                    | 8,835.00            | 6,218.38            | 4,988.64            | 47.39           | 28.33       | -8.98                 | 1,649.19                          | 6,049.99   | 5,888.72             | 5,837.03              | 51.69                   | 113.933           |                    |         |
| 10,600.00                                    | 8,835.00            | 6,228.60            | 4,988.37            | 48.91           | 28.46       | -8.83                 | 1,639.04                          | 6,051.17   | 5,813.09             | 5,761.37              | 51.72                   | 112.390           |                    |         |
| 10,700.00                                    | 8,835.00            | 6,238.88            | 4,988.10            | 50.47           | 28.59       | -8.68                 | 1,628.84                          | 6,052.37   | 5,738.19             | 5,686.42              | 51.77                   | 110.842           |                    |         |
| 10,800.00                                    | 8,835.00            | 6,249.22            | 4,987.82            | 52.06           | 28.72       | -8.53                 | 1,618.58                          | 6,053.58   | 5,664.05             | 5,612.22              | 51.83                   | 109.287           |                    |         |
| 10,900.00                                    | 8,835.00            | 6,259.62            | 4,987.55            | 53.68           | 28.86       | -8.37                 | 1,608.25                          | 6,054.79   | 5,590.68             | 5,538.79              | 51.90                   | 107.727           |                    |         |
| 11,000.00                                    | 8,835.00            | 6,270.08            | 4,987.28            | 55.32           | 28.99       | -8.22                 | 1,597.86                          | 6,056.02   | 5,518.14             | 5,466.16              | 51.98                   | 106.163           |                    |         |
| 11,100.00                                    | 8,835.00            | 6,280.61            | 4,987.00            | 57.00           | 29.13       | -8.06                 | 1,587.42                          | 6,057.26   | 5,446.44             | 5,394.37              | 52.07                   | 104.594           |                    |         |
| 11,200.00                                    | 8,835.00            | 6,291.19            | 4,986.73            | 58.70           | 29.26       | -7.91                 | 1,576.91                          | 6,058.51   | 5,375.63             | 5,323.45              | 52.18                   | 103.022           |                    |         |
| 11,300.00                                    | 8,835.00            | 6,301.85            | 4,986.46            | 60.41           | 29.40       | -7.75                 | 1,566.33                          | 6,059.77   | 5,305.73             | 5,253.43              | 52.30                   | 101.446           |                    |         |
| 11,400.00                                    | 8,835.00            | 6,315.58            | 4,986.11            | 62.15           | 29.58       | -7.54                 | 1,552.70                          | 6,061.41   | 5,236.78             | 5,184.33              | 52.46                   | 99.827            |                    |         |
| 11,500.00                                    | 8,835.00            | 6,348.14            | 4,985.47            | 63.91           | 30.00       | -7.06                 | 1,520.39                          | 6,065.34   | 5,168.80             | 5,116.04              | 52.76                   | 97.959            |                    |         |
| 11,600.00                                    | 8,835.00            | 6,382.60            | 4,985.09            | 65.69           | 30.46       | -6.55                 | 1,486.20                          | 6,069.63   | 5,101.80             | 5,048.71              | 53.09                   | 96.095            |                    |         |
| 11,700.00                                    | 8,835.00            | 6,419.13            | 4,985.04            | 67.47           | 30.94       | -6.01                 | 1,449.96                          | 6,074.30   | 5,035.80             | 4,982.36              | 53.44                   | 94.237            |                    |         |
| 11,800.00                                    | 8,835.00            | 6,417.71            | 4,985.03            | 69.28           | 30.93       | -6.03                 | 1,451.38                          | 6,074.13   | 4,970.92             | 4,917.38              | 53.54                   | 92.845            |                    |         |
| 11,900.00                                    | 8,835.00            | 6,428.08            | 4,985.06            | 71.09           | 31.07       | -5.88                 | 1,441.10                          | 6,075.53   | 4,907.18             | 4,853.44              | 53.74                   | 91.316            |                    |         |
| 12,000.00                                    | 8,835.00            | 6,439.02            | 4,985.12            | 72.92           | 31.21       | -5.71                 | 1,430.26                          | 6,077.03   | 4,844.64             | 4,790.68              | 53.96                   | 89.787            |                    |         |
| 12,100.00                                    | 8,835.00            | 6,450.58            | 4,985.22            | 74.76           | 31.37       | -5.54                 | 1,418.82                          | 6,078.67   | 4,783.34             | 4,729.15              | 54.20                   | 88.259            |                    |         |
| 12,200.00                                    | 8,835.00            | 6,462.82            | 4,985.35            | 76.61           | 31.54       | -5.36                 | 1,406.71                          | 6,080.45   | 4,723.34             | 4,668.88              | 54.46                   | 86.736            |                    |         |
| 12,300.00                                    | 8,835.00            | 6,475.78            | 4,985.52            | 78.47           | 31.71       | -5.17                 | 1,393.89                          | 6,082.38   | 4,664.66             | 4,609.92              | 54.74                   | 85.220            |                    |         |
| 12,400.00                                    | 8,835.00            | 6,489.55            | 4,985.74            | 80.34           | 31.90       | -4.96                 | 1,380.29                          | 6,084.50   | 4,607.36             | 4,552.33              | 55.04                   | 83.712            |                    |         |
| 12,500.00                                    | 8,835.00            | 6,528.43            | 4,986.54            | 82.22           | 32.43       | -4.39                 | 1,341.90                          | 6,090.59   | 4,551.48             | 4,495.98              | 55.50                   | 82.016            |                    |         |
| 12,600.00                                    | 8,835.00            | 12,600.00           | 4,989.70            | 84.11           | 116.54      | -2.69                 | 1,229.69                          | 6,106.33   | 4,496.64             | 4,383.15              | 113.49                  | 39.621 SF         |                    |         |
| 12,700.00                                    | 8,835.00            | 6,699.62            | 4,991.38            | 86.00           | 34.78       | -1.83                 | 1,172.31                          | 6,113.17   | 4,443.49             | 4,386.50              | 56.99                   | 77.968            |                    |         |
| 12,800.00                                    | 8,835.00            | 6,706.50            | 4,991.54            | 87.90           | 34.88       | -1.72                 | 1,165.46                          | 6,113.82   | 4,391.77             | 4,334.48              | 57.29                   | 76.661            |                    |         |
| 12,900.00                                    | 8,835.00            | 6,712.89            | 4,991.67            | 89.81           | 34.96       | -1.63                 | 1,159.09                          | 6,114.41   | 4,341.72             | 4,284.11              | 57.60                   | 75.373            |                    |         |
| 13,000.00                                    | 8,835.00            | 6,718.86            | 4,991.78            | 91.72           | 35.04       | -1.54                 | 1,153.15                          | 6,114.94   | 4,293.40             | 4,235.46              | 57.94                   | 74.105            |                    |         |
| 13,100.00                                    | 8,835.00            | 6,724.43            | 4,991.87            | 93.64           | 35.12       | -1.45                 | 1,147.60                          | 6,115.41   | 4,246.88             | 4,188.59              | 58.29                   | 72.858            |                    |         |
| 13,200.00                                    | 8,835.00            | 6,729.65            | 4,991.94            | 95.56           | 35.19       | -1.37                 | 1,142.40                          | 6,115.85   | 4,202.21             | 4,143.55              | 58.66                   | 71.634            |                    |         |
| 13,300.00                                    | 8,835.00            | 6,734.55            | 4,992.00            | 97.49           | 35.25       | -1.30                 | 1,137.52                          | 6,116.24   | 4,159.46             | 4,100.41              | 59.05                   | 70.434            |                    |         |
| 13,400.00                                    | 8,835.00            | 6,739.15            | 4,992.05            | 99.42           | 35.31       | -1.23                 | 1,132.93                          | 6,116.61   | 4,118.69             | 4,059.22              | 59.47                   | 69.260            |                    |         |
| 13,500.00                                    | 8,835.00            | 6,743.49            | 4,992.09            | 101.36          | 35.37       | -1.16                 | 1,128.61                          | 6,116.94   | 4,079.95             | 4,020.05              | 59.90                   | 68.112            |                    |         |
| 13,600.00                                    | 8,835.00            | 6,747.58            | 4,992.12            | 103.30          | 35.43       | -1.10                 | 1,124.52                          | 6,117.24   | 4,043.30             | 3,982.95              | 60.36                   | 66.991            |                    |         |
| 13,700.00                                    | 8,835.00            | 6,751.45            | 4,992.14            | 105.25          | 35.48       | -1.04                 | 1,120.67                          | 6,117.52   | 4,008.81             | 3,947.98              | 60.83                   | 65.900            |                    |         |
| 13,800.00                                    | 8,835.00            | 6,755.11            | 4,992.16            | 107.20          | 35.53       | -0.99                 | 1,117.01                          | 6,117.78   | 3,976.53             | 3,915.20              | 61.33                   | 64.838            |                    |         |
| 13,900.00                                    | 8,835.00            | 6,758.58            | 4,992.17            | 109.15          | 35.57       | -0.94                 | 1,113.55                          | 6,118.02   | 3,946.52             | 3,884.67              | 61.85                   | 63.807            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 18-GYRO-NS-CT, 4369-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 14,000.00                                    | 8,835.00            | 6,761.88            | 4,992.17            | 111.10          | 35.62       | -0.89                 | 1,110.26                          | 6,118.24   | 3,918.82             | 3,856.43              | 62.39                   | 62.807            |                    |         |
| 14,100.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 113.06          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,893.55             | 3,830.52              | 63.03                   | 61.777            |                    |         |
| 14,200.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 115.03          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,870.61             | 3,807.01              | 63.60                   | 60.855            |                    |         |
| 14,300.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 116.99          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,850.14             | 3,785.93              | 64.21                   | 59.964            |                    |         |
| 14,400.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 118.96          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,832.16             | 3,767.33              | 64.84                   | 59.103            |                    |         |
| 14,500.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 120.93          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,816.73             | 3,751.23              | 65.50                   | 58.275            |                    |         |
| 14,600.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 122.90          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,803.86             | 3,737.68              | 66.18                   | 57.479            |                    |         |
| 14,700.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 124.88          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,793.58             | 3,726.69              | 66.89                   | 56.715            |                    |         |
| 14,800.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 126.86          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,785.92             | 3,718.29              | 67.62                   | 55.985            |                    |         |
| 14,900.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 128.84          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,780.89             | 3,712.50              | 68.39                   | 55.288            |                    |         |
| 15,000.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 130.82          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,778.49             | 3,709.32              | 69.17                   | 54.626            |                    |         |
| 15,040.39                                    | 8,835.00            | 6,780.00            | 4,992.14            | 131.62          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,778.28             | 3,708.78              | 69.49                   | 54.369 CC         |                    |         |
| 15,100.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 132.80          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,778.75             | 3,708.77              | 69.98                   | 54.000 ES         |                    |         |
| 15,200.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 134.79          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,781.65             | 3,710.84              | 70.80                   | 53.410            |                    |         |
| 15,300.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 136.78          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,787.19             | 3,715.54              | 71.65                   | 52.859            |                    |         |
| 15,400.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 138.76          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,795.35             | 3,722.85              | 72.51                   | 52.346            |                    |         |
| 15,500.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 140.76          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,806.13             | 3,732.76              | 73.37                   | 51.873            |                    |         |
| 15,600.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 142.75          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,819.50             | 3,745.25              | 74.25                   | 51.442            |                    |         |
| 15,700.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 144.74          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,835.42             | 3,760.30              | 75.13                   | 51.052            |                    |         |
| 15,800.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 146.74          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,853.88             | 3,777.88              | 76.00                   | 50.706            |                    |         |
| 15,900.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 148.73          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,874.83             | 3,797.95              | 76.88                   | 50.403            |                    |         |
| 16,000.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 150.73          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,898.24             | 3,820.49              | 77.74                   | 50.143            |                    |         |
| 16,100.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 152.73          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,924.05             | 3,845.46              | 78.59                   | 49.928            |                    |         |
| 16,200.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 154.73          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,952.23             | 3,872.79              | 79.43                   | 49.756            |                    |         |
| 16,300.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 156.73          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,982.71             | 3,902.46              | 80.25                   | 49.627            |                    |         |
| 16,400.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 158.74          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 4,015.46             | 3,934.41              | 81.05                   | 49.542            |                    |         |
| 16,500.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 160.74          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 4,050.41             | 3,968.59              | 81.83                   | 49.499            |                    |         |
| 16,600.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 162.74          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 4,087.52             | 4,004.93              | 82.58                   | 49.497            |                    |         |
| 16,700.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 164.75          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 4,126.71             | 4,043.40              | 83.31                   | 49.536            |                    |         |
| 16,800.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 166.76          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 4,167.93             | 4,083.92              | 84.01                   | 49.614            |                    |         |
| 16,900.00                                    | 8,835.00            | 6,812.27            | 4,991.72            | 168.77          | 36.28       | -0.12                 | 1,059.95                          | 6,121.01   | 4,210.68             | 4,125.79              | 84.89                   | 49.601            |                    |         |
| 17,000.00                                    | 8,835.00            | 6,813.29            | 4,991.70            | 170.77          | 36.29       | -0.11                 | 1,058.93                          | 6,121.05   | 4,255.75             | 4,170.20              | 85.55                   | 49.748            |                    |         |
| 17,100.00                                    | 8,835.00            | 6,814.29            | 4,991.68            | 172.78          | 36.31       | -0.09                 | 1,057.93                          | 6,121.09   | 4,302.68             | 4,216.50              | 86.17                   | 49.930            |                    |         |
| 17,200.00                                    | 8,835.00            | 6,815.27            | 4,991.65            | 174.79          | 36.32       | -0.08                 | 1,056.96                          | 6,121.13   | 4,351.40             | 4,264.62              | 86.77                   | 50.146            |                    |         |
| 17,300.00                                    | 8,835.00            | 6,816.22            | 4,991.63            | 176.81          | 36.33       | -0.06                 | 1,056.01                          | 6,121.17   | 4,401.85             | 4,314.50              | 87.35                   | 50.396            |                    |         |
| 17,400.00                                    | 8,835.00            | 6,817.15            | 4,991.61            | 178.82          | 36.34       | -0.05                 | 1,055.08                          | 6,121.21   | 4,453.97             | 4,366.08              | 87.89                   | 50.677            |                    |         |
| 17,500.00                                    | 8,835.00            | 6,818.05            | 4,991.59            | 180.83          | 36.35       | -0.04                 | 1,054.17                          | 6,121.25   | 4,507.71             | 4,419.31              | 88.41                   | 50.989            |                    |         |
| 17,600.00                                    | 8,835.00            | 6,818.94            | 4,991.57            | 182.84          | 36.37       | -0.02                 | 1,053.29                          | 6,121.28   | 4,563.01             | 4,474.11              | 88.90                   | 51.330            |                    |         |
| 17,700.00                                    | 8,835.00            | 6,819.81            | 4,991.55            | 184.86          | 36.38       | -0.01                 | 1,052.42                          | 6,121.32   | 4,619.81             | 4,530.45              | 89.36                   | 51.699            |                    |         |
| 17,800.00                                    | 8,835.00            | 6,820.65            | 4,991.53            | 186.87          | 36.39       | 0.00                  | 1,051.58                          | 6,121.35   | 4,678.06             | 4,588.26              | 89.80                   | 52.095            |                    |         |
| 17,900.00                                    | 8,835.00            | 6,821.48            | 4,991.51            | 188.89          | 36.40       | 0.02                  | 1,050.75                          | 6,121.39   | 4,737.70             | 4,647.49              | 90.21                   | 52.517            |                    |         |
| 18,000.00                                    | 8,835.00            | 6,822.29            | 4,991.49            | 190.91          | 36.41       | 0.03                  | 1,049.94                          | 6,121.42   | 4,798.68             | 4,708.08              | 90.60                   | 52.963            |                    |         |
| 18,100.00                                    | 8,835.00            | 6,823.08            | 4,991.47            | 192.92          | 36.42       | 0.04                  | 1,049.15                          | 6,121.45   | 4,860.96             | 4,769.99              | 90.97                   | 53.432            |                    |         |
| 18,200.00                                    | 8,835.00            | 6,823.85            | 4,991.45            | 194.94          | 36.43       | 0.05                  | 1,048.38                          | 6,121.48   | 4,924.48             | 4,833.16              | 91.32                   | 53.925            |                    |         |
| 18,300.00                                    | 8,835.00            | 6,824.61            | 4,991.43            | 196.96          | 36.44       | 0.06                  | 1,047.62                          | 6,121.51   | 4,989.19             | 4,897.54              | 91.65                   | 54.438            |                    |         |
| 18,400.00                                    | 8,835.00            | 6,825.36            | 4,991.41            | 198.98          | 36.45       | 0.08                  | 1,046.88                          | 6,121.53   | 5,055.05             | 4,963.10              | 91.96                   | 54.972            |                    |         |
| 18,500.00                                    | 8,835.00            | 6,826.08            | 4,991.39            | 201.00          | 36.46       | 0.09                  | 1,046.15                          | 6,121.56   | 5,122.02             | 5,029.78              | 92.25                   | 55.525            |                    |         |
| 18,600.00                                    | 8,835.00            | 6,826.79            | 4,991.37            | 203.02          | 36.47       | 0.10                  | 1,045.44                          | 6,121.59   | 5,190.05             | 5,097.54              | 92.52                   | 56.097            |                    |         |
| 18,700.00                                    | 8,835.00            | 6,827.49            | 4,991.35            | 205.04          | 36.48       | 0.11                  | 1,044.75                          | 6,121.61   | 5,259.11             | 5,166.33              | 92.77                   | 56.687            |                    |         |
| 18,800.00                                    | 8,835.00            | 6,828.17            | 4,991.33            | 207.06          | 36.49       | 0.12                  | 1,044.06                          | 6,121.64   | 5,329.14             | 5,236.12              | 93.01                   | 57.294            |                    |         |
| 18,900.00                                    | 8,835.00            | 6,828.84            | 4,991.31            | 209.08          | 36.50       | 0.13                  | 1,043.40                          | 6,121.66   | 5,400.12             | 5,306.88              | 93.24                   | 57.917            |                    |         |
| 19,000.00                                    | 8,835.00            | 6,829.50            | 4,991.29            | 211.10          | 36.50       | 0.14                  | 1,042.74                          | 6,121.69   | 5,472.00             | 5,378.55              | 93.45                   | 58.555            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

|                                |                                |                                                                               |                                |                           |                        |                                  |                                                  |                       |                                 |                                  |                                    |                           |                |
|--------------------------------|--------------------------------|-------------------------------------------------------------------------------|--------------------------------|---------------------------|------------------------|----------------------------------|--------------------------------------------------|-----------------------|---------------------------------|----------------------------------|------------------------------------|---------------------------|----------------|
| <b>Offset Design</b>           |                                | Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 4H - Wellbore #2 - Wellbore #2 |                                |                           |                        |                                  |                                                  |                       |                                 |                                  |                                    | <b>Offset Site Error:</b> | 5.00 ft        |
| <b>Survey Program:</b>         |                                | 18-GYRO-NS-CT, 4369-MWD+HDGM                                                  |                                |                           |                        |                                  |                                                  |                       |                                 |                                  |                                    | <b>Offset Well Error:</b> | 0.50 ft        |
| <b>Reference</b>               |                                | <b>Offset</b>                                                                 |                                | <b>Semi Major Axis</b>    |                        |                                  | <b>Distance</b>                                  |                       |                                 |                                  |                                    |                           | <b>Warning</b> |
| <b>Measured Depth<br/>(ft)</b> | <b>Vertical Depth<br/>(ft)</b> | <b>Measured Depth<br/>(ft)</b>                                                | <b>Vertical Depth<br/>(ft)</b> | <b>Reference<br/>(ft)</b> | <b>Offset<br/>(ft)</b> | <b>Highside Toolface<br/>(°)</b> | <b>Offset Wellbore Centre<br/>+N/-S<br/>(ft)</b> | <b>+E/-W<br/>(ft)</b> | <b>Between Centres<br/>(ft)</b> | <b>Between Ellipses<br/>(ft)</b> | <b>Minimum Separation<br/>(ft)</b> | <b>Separation Factor</b>  |                |
| 19,100.00                      | 8,835.00                       | 6,830.14                                                                      | 4,991.28                       | 213.12                    | 36.51                  | 0.15                             | 1,042.10                                         | 6,121.71              | 5,544.75                        | 5,451.10                         | 93.65                              | 59.208                    |                |
| 19,200.00                      | 8,835.00                       | 6,830.77                                                                      | 4,991.26                       | 215.15                    | 36.52                  | 0.16                             | 1,041.47                                         | 6,121.73              | 5,618.35                        | 5,524.51                         | 93.84                              | 59.875                    |                |
| 19,308.27                      | 8,835.00                       | 6,831.44                                                                      | 4,991.24                       | 217.34                    | 36.53                  | 0.17                             | 1,040.80                                         | 6,121.75              | 5,698.93                        | 5,604.91                         | 94.02                              | 60.612                    |                |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 233-GYRO-NS-CT, 4541-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                                          | 0.00                | 0.00                | 0.00                | 0.50            | 5.02        | 67.10                 | 3,259.92                          | 7,715.55   | 8,376.32             |                       |                         |                   |                    |         |
| 100.00                                        | 100.00              | 25.83               | 25.83               | 0.52            | 5.03        | 67.10                 | 3,259.92                          | 7,715.54   | 8,375.95             | 8,370.41              | 5.54                    | 1,511.127         |                    |         |
| 200.00                                        | 200.00              | 142.19              | 142.19              | 0.70            | 5.03        | 67.09                 | 3,260.14                          | 7,715.27   | 8,375.81             | 8,370.08              | 5.73                    | 1,461.266         |                    |         |
| 300.00                                        | 300.00              | 270.45              | 270.44              | 0.99            | 5.05        | 67.09                 | 3,260.65                          | 7,714.54   | 8,375.46             | 8,369.43              | 6.04                    | 1,387.503         |                    |         |
| 400.00                                        | 400.00              | 381.38              | 381.38              | 1.31            | 5.10        | 67.09                 | 3,260.51                          | 7,713.71   | 8,374.71             | 8,368.30              | 6.41                    | 1,306.411         |                    |         |
| 500.00                                        | 500.00              | 467.82              | 467.81              | 1.65            | 5.16        | 67.09                 | 3,260.14                          | 7,713.29   | 8,374.09             | 8,367.28              | 6.81                    | 1,229.996         |                    |         |
| 600.00                                        | 600.00              | 569.26              | 569.25              | 1.99            | 5.25        | 67.09                 | 3,259.64                          | 7,712.93   | 8,373.57             | 8,366.33              | 7.25                    | 1,155.705         |                    |         |
| 700.00                                        | 700.00              | 683.61              | 683.59              | 2.34            | 5.39        | 67.09                 | 3,258.93                          | 7,712.43   | 8,372.93             | 8,365.20              | 7.72                    | 1,083.894         |                    |         |
| 800.00                                        | 800.00              | 782.25              | 782.23              | 2.69            | 5.52        | 67.10                 | 3,258.10                          | 7,712.00   | 8,372.20             | 8,363.99              | 8.21                    | 1,019.771         |                    |         |
| 900.00                                        | 900.00              | 852.93              | 852.90              | 3.04            | 5.63        | 67.10                 | 3,257.63                          | 7,711.78   | 8,371.65             | 8,362.98              | 8.67                    | 965.613           |                    |         |
| 1,000.00                                      | 1,000.00            | 963.24              | 963.22              | 3.40            | 5.81        | 67.10                 | 3,257.10                          | 7,711.57   | 8,371.30             | 8,362.09              | 9.21                    | 909.160           |                    |         |
| 1,100.00                                      | 1,100.00            | 1,050.16            | 1,050.13            | 3.75            | 5.97        | 67.10                 | 3,256.70                          | 7,711.34   | 8,370.88             | 8,361.16              | 9.72                    | 861.088           |                    |         |
| 1,200.00                                      | 1,200.00            | 1,174.21            | 1,174.18            | 4.11            | 6.21        | 67.10                 | 3,256.71                          | 7,710.58   | 8,370.29             | 8,359.97              | 10.32                   | 810.927           |                    |         |
| 1,300.00                                      | 1,300.00            | 1,240.90            | 1,240.87            | 4.46            | 6.35        | 67.10                 | 3,256.92                          | 7,710.19   | 8,369.88             | 8,359.06              | 10.82                   | 773.701           |                    |         |
| 1,400.00                                      | 1,400.00            | 1,332.05            | 1,332.02            | 4.82            | 6.55        | 67.10                 | 3,257.22                          | 7,709.90   | 8,369.71             | 8,358.34              | 11.37                   | 735.868           |                    |         |
| 1,500.00                                      | 1,500.00            | 1,431.41            | 1,431.38            | 5.18            | 6.78        | 67.10                 | 3,257.47                          | 7,709.69   | 8,369.62             | 8,357.66              | 11.96                   | 699.895           |                    |         |
| 1,600.00                                      | 1,600.00            | 1,575.78            | 1,575.74            | 5.53            | 7.13        | 67.09                 | 3,258.08                          | 7,708.83   | 8,369.22             | 8,356.56              | 12.66                   | 660.875           |                    |         |
| 1,700.00                                      | 1,700.00            | 1,662.21            | 1,662.18            | 5.89            | 7.35        | 67.09                 | 3,258.24                          | 7,708.15   | 8,368.60             | 8,355.36              | 13.24                   | 632.127           |                    |         |
| 1,800.00                                      | 1,800.00            | 1,741.58            | 1,741.55            | 6.25            | 7.55        | 67.09                 | 3,258.08                          | 7,707.95   | 8,368.27             | 8,354.47              | 13.80                   | 606.347           |                    |         |
| 1,900.00                                      | 1,900.00            | 1,830.37            | 1,830.34            | 6.61            | 7.79        | 67.09                 | 3,257.64                          | 7,707.97   | 8,368.10             | 8,353.71              | 14.39                   | 581.410           |                    |         |
| 2,000.00                                      | 2,000.00            | 1,921.00            | 1,920.96            | 6.96            | 8.03        | 67.09                 | 3,257.16                          | 7,708.14   | 8,368.07             | 8,353.07              | 14.99                   | 558.080           |                    |         |
| 2,033.73                                      | 2,033.73            | 1,952.21            | 1,952.17            | 7.08            | 8.12        | 79.88                 | 3,256.90                          | 7,708.26   | 8,368.06             | 8,352.86              | 15.20                   | 550.528           |                    |         |
| 2,100.00                                      | 2,099.99            | 2,028.20            | 2,028.16            | 7.32            | 8.33        | 79.89                 | 3,256.11                          | 7,708.61   | 8,367.94             | 8,352.29              | 15.65                   | 534.802           |                    |         |
| 2,200.00                                      | 2,199.96            | 2,098.99            | 2,098.96            | 7.68            | 8.58        | 100.98                | 347.73                            | 7,834.79   | 8,350.59             | 8,299.50              | 51.09                   | 163.440           |                    |         |
| 2,300.00                                      | 2,299.86            | 2,168.53            | 2,168.50            | 8.04            | 8.86        | 101.31                | 349.18                            | 7,834.73   | 8,317.56             | 8,265.99              | 51.56                   | 161.309           |                    |         |
| 2,400.00                                      | 2,399.68            | 2,238.07            | 2,238.04            | 8.39            | 9.19        | 101.62                | 351.19                            | 7,834.64   | 8,285.92             | 8,233.90              | 52.02                   | 159.268           |                    |         |
| 2,500.00                                      | 2,499.37            | 2,307.61            | 2,307.58            | 8.75            | 9.57        | 101.91                | 353.75                            | 7,834.52   | 8,255.71             | 8,203.23              | 52.48                   | 157.317           |                    |         |
| 2,600.00                                      | 2,598.90            | 2,377.15            | 2,377.12            | 9.11            | 9.95        | 102.18                | 356.87                            | 7,834.39   | 8,226.95             | 8,174.03              | 52.92                   | 155.453           |                    |         |
| 2,700.00                                      | 2,698.26            | 2,446.69            | 2,446.66            | 9.46            | 10.33       | 102.43                | 360.57                            | 7,834.23   | 8,199.66             | 8,146.30              | 53.36                   | 153.675           |                    |         |
| 2,800.00                                      | 2,797.40            | 2,516.23            | 2,516.20            | 9.82            | 10.69       | 102.66                | 364.84                            | 7,834.05   | 8,173.85             | 8,120.07              | 53.78                   | 151.981           |                    |         |
| 2,900.00                                      | 2,896.30            | 2,585.77            | 2,585.74            | 10.18           | 11.05       | 102.69                | 369.68                            | 7,832.91   | 8,149.68             | 8,095.82              | 53.86                   | 151.318           |                    |         |
| 3,000.00                                      | 2,994.93            | 2,655.31            | 2,655.28            | 10.54           | 11.41       | 102.92                | 374.68                            | 7,832.91   | 8,126.86             | 8,072.52              | 54.34                   | 149.566           |                    |         |
| 3,100.00                                      | 3,093.26            | 2,724.85            | 2,724.82            | 10.90           | 11.77       | 103.14                | 379.68                            | 7,832.91   | 8,105.60             | 8,050.78              | 54.81                   | 147.878           |                    |         |
| 3,195.07                                      | 3,186.42            | 2,794.39            | 2,794.36            | 11.24           | 12.13       | 103.32                | 384.68                            | 7,832.91   | 8,086.84             | 8,031.57              | 55.26                   | 146.332           |                    |         |
| 3,200.00                                      | 3,191.25            | 2,863.93            | 2,863.90            | 11.26           | 12.49       | 103.32                | 389.68                            | 7,832.91   | 8,068.90             | 8,013.61              | 55.29                   | 146.254           |                    |         |
| 3,300.00                                      | 3,289.08            | 2,933.47            | 2,933.44            | 11.62           | 12.85       | 103.32                | 394.68                            | 7,832.91   | 8,067.58             | 8,011.82              | 55.76                   | 144.686           |                    |         |
| 3,400.00                                      | 3,386.91            | 3,003.01            | 3,002.98            | 11.98           | 13.21       | 103.32                | 399.68                            | 7,832.91   | 8,050.45             | 7,994.22              | 56.23                   | 143.171           |                    |         |
| 3,500.00                                      | 3,484.74            | 3,072.55            | 3,072.52            | 12.35           | 13.57       | 103.32                | 404.68                            | 7,832.91   | 8,034.53             | 7,977.84              | 56.70                   | 141.710           |                    |         |
| 3,600.00                                      | 3,582.58            | 3,142.09            | 3,142.06            | 12.72           | 13.93       | 103.32                | 409.68                            | 7,832.91   | 8,019.83             | 7,962.67              | 57.16                   | 140.302           |                    |         |
| 3,700.00                                      | 3,680.41            | 3,211.63            | 3,211.60            | 13.09           | 14.29       | 103.32                | 414.68                            | 7,832.91   | 8,006.36             | 7,948.73              | 57.62                   | 138.947           |                    |         |
| 3,800.00                                      | 3,778.24            | 3,281.17            | 3,281.14            | 13.46           | 14.65       | 103.08                | 419.68                            | 7,831.87   | 7,993.87             | 7,936.26              | 57.62                   | 138.743           |                    |         |
| 3,900.00                                      | 3,876.08            | 3,350.71            | 3,350.68            | 13.83           | 15.01       | 103.03                | 424.68                            | 7,831.70   | 7,982.76             | 7,924.78              | 57.97                   | 137.693           |                    |         |
| 4,000.00                                      | 3,973.91            | 3,420.25            | 3,420.22            | 14.21           | 15.37       | 102.98                | 429.68                            | 7,831.54   | 7,972.86             | 7,914.53              | 58.33                   | 136.690           |                    |         |
| 4,100.00                                      | 4,071.74            | 3,489.79            | 3,489.76            | 14.58           | 15.73       | 102.93                | 434.68                            | 7,831.39   | 7,964.18             | 7,905.51              | 58.68                   | 135.733           |                    |         |
| 4,200.00                                      | 4,169.57            | 3,559.33            | 3,559.30            | 14.96           | 16.09       | 102.88                | 439.68                            | 7,831.25   | 7,956.74             | 7,897.72              | 59.02                   | 134.821           |                    |         |
| 4,300.00                                      | 4,267.41            | 3,628.87            | 3,628.84            | 15.33           | 16.45       | 102.65                | 444.68                            | 7,830.77   | 7,950.65             | 7,891.65              | 59.00                   | 134.753           |                    |         |
| 4,400.00                                      | 4,365.24            | 3,698.41            | 3,698.38            | 15.71           | 16.81       | 102.65                | 449.68                            | 7,830.77   | 7,945.61             | 7,886.18              | 59.43                   | 133.704           |                    |         |
| 4,500.00                                      | 4,463.07            | 3,767.95            | 3,767.92            | 16.09           | 17.17       | 102.65                | 454.68                            | 7,830.77   | 7,941.82             | 7,881.97              | 59.85                   | 132.703           |                    |         |
| 4,600.00                                      | 4,560.90            | 3,837.49            | 3,837.46            | 16.47           | 17.53       | 102.65                | 459.68                            | 7,830.77   | 7,939.29             | 7,879.03              | 60.26                   | 131.752           |                    |         |
| 4,700.00                                      | 4,658.74            | 3,907.03            | 3,907.00            | 16.85           | 17.89       | 102.65                | 464.68                            | 7,830.77   | 7,938.02             | 7,877.36              | 60.67                   | 130.848           |                    |         |
| 4,753.88                                      | 4,711.44            | 3,976.57            | 3,976.54            | 17.05           | 18.09       | 102.56                | 503.28                            | 7,830.64   | 7,937.84             | 7,877.14              | 60.70                   | 130.772           |                    |         |
| 4,800.00                                      | 4,756.57            | 4,046.11            | 4,046.08            | 17.23           | 18.29       | 102.51                | 510.08                            | 7,830.58   | 7,937.97             | 7,877.18              | 60.79                   | 130.576           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 5H - Wellbore #1 - Wellbore #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Site Error:</b> | 5.00 ft |
|----------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 233-GYRO-NS-CT, 4541-MWD+HDGM                                                      |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                          |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                           | Warning |
| Measured Depth (ft)                                                                                | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor         |         |
| 4,900.00                                                                                           | 4,854.40            | 7,532.91            | 4,991.40            | 17.61           | 43.44       | 102.41                | 524.72                            | 7,830.45   | 7,939.14             | 7,878.15              | 60.99                   | 130.173                   |         |
| 5,000.00                                                                                           | 4,952.23            | 7,518.39            | 4,991.66            | 17.99           | 43.25       | 102.30                | 539.24                            | 7,830.34   | 7,941.53             | 7,880.35              | 61.18                   | 129.804                   |         |
| 5,100.00                                                                                           | 5,050.07            | 7,503.99            | 4,991.91            | 18.37           | 43.05       | 102.20                | 553.63                            | 7,830.25   | 7,945.14             | 7,883.77              | 61.37                   | 129.468                   |         |
| 5,200.00                                                                                           | 5,147.90            | 7,489.72            | 4,992.14            | 18.75           | 42.86       | 102.10                | 567.91                            | 7,830.17   | 7,949.97             | 7,888.42              | 61.55                   | 129.166                   |         |
| 5,300.00                                                                                           | 5,245.73            | 7,481.12            | 4,992.27            | 19.14           | 42.74       | 102.04                | 576.50                            | 7,830.12   | 7,956.01             | 7,894.21              | 61.80                   | 128.743                   |         |
| 5,400.00                                                                                           | 5,343.56            | 7,437.23            | 4,992.86            | 19.52           | 42.15       | 101.73                | 620.38                            | 7,829.91   | 7,963.23             | 7,901.66              | 61.57                   | 129.333                   |         |
| 5,500.00                                                                                           | 5,441.40            | 7,083.09            | 4,990.48            | 19.90           | 37.37       | 99.23                 | 974.33                            | 7,820.00   | 7,971.23             | 7,914.05              | 57.18                   | 139.394                   |         |
| 5,600.00                                                                                           | 5,539.23            | 7,068.69            | 4,990.17            | 20.29           | 37.18       | 99.12                 | 988.71                            | 7,819.29   | 7,980.00             | 7,922.66              | 57.34                   | 139.166                   |         |
| 5,700.00                                                                                           | 5,637.06            | 7,054.40            | 4,989.85            | 20.67           | 36.99       | 99.02                 | 1,002.98                          | 7,818.59   | 7,989.99             | 7,932.49              | 57.49                   | 138.973                   |         |
| 5,800.00                                                                                           | 5,734.90            | 7,040.22            | 4,989.52            | 21.05           | 36.80       | 98.92                 | 1,017.14                          | 7,817.90   | 8,001.17             | 7,943.53              | 57.64                   | 138.815                   |         |
| 5,900.00                                                                                           | 5,832.73            | 5,900.00            | 4,987.56            | 21.44           | 21.67       | 98.35                 | 1,097.29                          | 7,813.72   | 8,013.52             | 7,970.62              | 42.89                   | 186.821                   |         |
| 6,000.00                                                                                           | 5,930.56            | 6,000.00            | 4,987.12            | 21.83           | 22.99       | 98.23                 | 1,115.27                          | 7,812.71   | 8,026.95             | 7,982.41              | 44.54                   | 180.234                   |         |
| 6,100.00                                                                                           | 6,028.39            | 6,863.32            | 4,985.18            | 22.21           | 34.44       | 97.67                 | 1,193.70                          | 7,807.93   | 8,041.43             | 7,985.17              | 56.26                   | 142.939                   |         |
| 6,200.00                                                                                           | 6,126.23            | 6,849.72            | 4,984.82            | 22.60           | 34.26       | 97.57                 | 1,207.26                          | 7,807.06   | 8,057.08             | 8,000.69              | 56.39                   | 142.884                   |         |
| 6,300.00                                                                                           | 6,224.06            | 6,836.22            | 4,984.46            | 22.98           | 34.08       | 97.48                 | 1,220.73                          | 7,806.21   | 8,073.92             | 8,017.40              | 56.52                   | 142.863                   |         |
| 6,400.00                                                                                           | 6,321.89            | 6,822.83            | 4,984.09            | 23.37           | 33.90       | 97.38                 | 1,234.10                          | 7,805.37   | 8,091.92             | 8,035.29              | 56.64                   | 142.876                   |         |
| 6,500.00                                                                                           | 6,419.72            | 6,807.48            | 4,983.66            | 23.76           | 33.70       | 97.27                 | 1,249.41                          | 7,804.41   | 8,111.09             | 8,054.36              | 56.73                   | 142.988                   |         |
| 6,600.00                                                                                           | 6,517.56            | 6,773.57            | 4,982.92            | 24.14           | 33.25       | 97.03                 | 1,283.24                          | 7,802.30   | 8,131.39             | 8,074.82              | 56.57                   | 143.739                   |         |
| 6,700.00                                                                                           | 6,615.39            | 6,735.24            | 4,982.54            | 24.53           | 32.75       | 96.76                 | 1,321.49                          | 7,799.91   | 8,152.78             | 8,096.42              | 56.35                   | 144.672                   |         |
| 6,800.00                                                                                           | 6,713.22            | 6,717.00            | 4,982.53            | 24.92           | 32.51       | 96.63                 | 1,339.70                          | 7,798.78   | 8,175.25             | 8,118.86              | 56.39                   | 144.975                   |         |
| 6,900.00                                                                                           | 6,811.05            | 6,717.00            | 4,982.53            | 25.30           | 32.51       | 96.63                 | 1,339.70                          | 7,798.78   | 8,198.88             | 8,142.22              | 56.66                   | 144.711                   |         |
| 7,000.00                                                                                           | 6,908.89            | 6,717.00            | 4,982.53            | 25.69           | 32.51       | 96.63                 | 1,339.70                          | 7,798.78   | 8,223.65             | 8,166.73              | 56.92                   | 144.487                   |         |
| 7,100.00                                                                                           | 7,006.72            | 6,689.09            | 4,982.57            | 26.08           | 32.15       | 96.44                 | 1,367.56                          | 7,797.11   | 8,249.43             | 8,192.61              | 56.82                   | 145.190                   |         |
| 7,200.00                                                                                           | 7,104.55            | 6,681.33            | 4,982.58            | 26.47           | 32.05       | 96.38                 | 1,375.31                          | 7,796.68   | 8,276.39             | 8,219.42              | 56.97                   | 145.281                   |         |
| 7,216.87                                                                                           | 7,121.05            | 6,680.02            | 4,982.58            | 26.53           | 32.03       | 96.37                 | 1,376.61                          | 7,796.61   | 8,281.04             | 8,224.05              | 56.99                   | 145.300                   |         |
| 7,300.00                                                                                           | 7,202.57            | 6,673.93            | 4,982.58            | 26.85           | 31.96       | 96.69                 | 1,382.69                          | 7,796.27   | 8,304.35             | 8,247.23              | 57.11                   | 145.398                   |         |
| 7,400.00                                                                                           | 7,301.06            | 6,667.51            | 4,982.58            | 27.23           | 31.87       | 97.09                 | 1,389.11                          | 7,795.93   | 8,333.11             | 8,275.85              | 57.26                   | 145.526                   |         |
| 7,500.00                                                                                           | 7,399.97            | 6,662.07            | 4,982.58            | 27.61           | 31.80       | 97.52                 | 1,394.54                          | 7,795.65   | 8,362.65             | 8,305.24              | 57.41                   | 145.665                   |         |
| 7,600.00                                                                                           | 7,499.23            | 6,657.61            | 4,982.58            | 27.98           | 31.74       | 97.96                 | 1,399.00                          | 7,795.42   | 8,392.94             | 8,335.38              | 57.56                   | 145.815                   |         |
| 7,700.00                                                                                           | 7,598.77            | 6,654.12            | 4,982.58            | 28.34           | 31.70       | 98.42                 | 1,402.48                          | 7,795.24   | 8,423.96             | 8,366.25              | 57.71                   | 145.976                   |         |
| 7,800.00                                                                                           | 7,698.53            | 6,651.61            | 4,982.57            | 28.70           | 31.67       | 98.89                 | 1,404.99                          | 7,795.12   | 8,455.69             | 8,397.83              | 57.86                   | 146.146                   |         |
| 7,900.00                                                                                           | 7,798.44            | 6,650.07            | 4,982.57            | 29.05           | 31.65       | 99.39                 | 1,406.53                          | 7,795.04   | 8,488.09             | 8,430.08              | 58.01                   | 146.325                   |         |
| 8,000.00                                                                                           | 7,898.42            | 6,649.49            | 4,982.57            | 29.39           | 31.64       | 99.90                 | 1,407.10                          | 7,795.01   | 8,521.14             | 8,462.98              | 58.16                   | 146.512                   |         |
| 8,013.58                                                                                           | 7,912.00            | 6,649.49            | 4,982.57            | 29.43           | 31.64       | 87.20                 | 1,407.11                          | 7,795.01   | 8,525.67             | 8,467.49              | 58.18                   | 146.538                   |         |
| 8,100.00                                                                                           | 7,998.42            | 6,649.52            | 4,982.57            | 29.73           | 31.64       | 87.20                 | 1,407.07                          | 7,795.01   | 8,554.97             | 8,496.66              | 58.31                   | 146.713                   |         |
| 8,200.00                                                                                           | 8,098.42            | 6,649.56            | 4,982.57            | 30.07           | 31.64       | 87.20                 | 1,407.04                          | 7,795.02   | 8,589.83             | 8,531.37              | 58.46                   | 146.941                   |         |
| 8,300.00                                                                                           | 8,198.42            | 6,649.59            | 4,982.57            | 30.41           | 31.64       | 87.20                 | 1,407.00                          | 7,795.02   | 8,625.70             | 8,567.10              | 58.60                   | 147.195                   |         |
| 8,363.62                                                                                           | 8,262.04            | 6,649.61            | 4,982.57            | 30.62           | 31.64       | 87.20                 | 1,406.98                          | 7,795.02   | 8,649.05             | 8,590.36              | 58.69                   | 147.371                   |         |
| 8,400.00                                                                                           | 8,298.40            | 6,649.64            | 4,982.57            | 30.75           | 31.64       | -2.41                 | 1,406.95                          | 7,795.02   | 8,661.50             | 8,602.77              | 58.73                   | 147.469                   |         |
| 8,450.00                                                                                           | 8,348.10            | 6,649.75            | 4,982.57            | 30.91           | 31.64       | -2.35                 | 1,406.85                          | 7,795.02   | 8,675.26             | 8,616.47              | 58.79                   | 147.563                   |         |
| 8,500.00                                                                                           | 8,397.14            | 6,649.92            | 4,982.57            | 31.07           | 31.65       | -2.30                 | 1,406.68                          | 7,795.03   | 8,685.06             | 8,626.22              | 58.84                   | 147.598                   |         |
| 8,550.00                                                                                           | 8,445.15            | 6,650.16            | 4,982.57            | 31.23           | 31.65       | -2.28                 | 1,406.44                          | 7,795.05   | 8,690.83             | 8,631.94              | 58.89                   | 147.575                   |         |
| 8,600.00                                                                                           | 8,491.77            | 6,650.46            | 4,982.57            | 31.38           | 31.65       | -2.27                 | 1,406.13                          | 7,795.06   | 8,692.55             | 8,633.61              | 58.93                   | 147.497                   |         |
| 8,650.00                                                                                           | 8,536.65            | 6,650.83            | 4,982.57            | 31.52           | 31.66       | -2.28                 | 1,405.76                          | 7,795.08   | 8,690.19             | 8,631.22              | 58.97                   | 147.366                   |         |
| 8,700.00                                                                                           | 8,579.43            | 6,651.27            | 4,982.57            | 31.66           | 31.66       | -2.30                 | 1,405.33                          | 7,795.10   | 8,683.78             | 8,624.78              | 59.00                   | 147.184                   |         |
| 8,750.00                                                                                           | 8,619.80            | 6,651.76            | 4,982.57            | 31.80           | 31.67       | -2.34                 | 1,404.84                          | 7,795.12   | 8,673.35             | 8,614.33              | 59.02                   | 146.952                   |         |
| 8,800.00                                                                                           | 8,657.44            | 6,652.30            | 4,982.58            | 31.93           | 31.68       | -2.40                 | 1,404.30                          | 7,795.15   | 8,658.97             | 8,599.94              | 59.04                   | 146.673                   |         |
| 8,850.00                                                                                           | 8,692.08            | 6,652.90            | 4,982.58            | 32.06           | 31.68       | -2.48                 | 1,403.70                          | 7,795.18   | 8,640.74             | 8,581.69              | 59.04                   | 146.348                   |         |
| 8,900.00                                                                                           | 8,723.44            | 6,653.55            | 4,982.58            | 32.19           | 31.69       | -2.58                 | 1,403.05                          | 7,795.21   | 8,618.75             | 8,559.71              | 59.04                   | 145.979                   |         |
| 8,950.00                                                                                           | 8,751.29            | 6,654.24            | 4,982.58            | 32.34           | 31.70       | -2.71                 | 1,402.36                          | 7,795.25   | 8,593.16             | 8,534.13              | 59.03                   | 145.567                   |         |
| 9,000.00                                                                                           | 8,775.42            | 6,654.97            | 4,982.58            | 32.50           | 31.71       | -2.88                 | 1,401.63                          | 7,795.29   | 8,564.13             | 8,505.11              | 59.02                   | 145.113                   |         |
| 9,050.00                                                                                           | 8,795.64            | 6,655.74            | 4,982.58            | 32.67           | 31.72       | -3.10                 | 1,400.86                          | 7,795.32   | 8,531.84             | 8,472.84              | 59.00                   | 144.619                   |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 233-GYRO-NS-CT, 4541-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,100.00                                      | 8,811.80            | 6,656.54            | 4,982.58            | 32.87           | 31.73       | -3.37                 | 1,400.06                          | 7,795.36   | 8,496.50             | 8,437.53              | 58.97                   | 144.086           |                    |         |
| 9,150.00                                      | 8,823.77            | 6,657.36            | 4,982.58            | 33.10           | 31.74       | -3.73                 | 1,399.24                          | 7,795.41   | 8,458.35             | 8,399.41              | 58.94                   | 143.516           |                    |         |
| 9,200.00                                      | 8,831.47            | 6,658.21            | 4,982.58            | 33.34           | 31.75       | -4.20                 | 1,398.40                          | 7,795.45   | 8,417.64             | 8,358.74              | 58.90                   | 142.909           |                    |         |
| 9,250.00                                      | 8,834.84            | 6,659.06            | 4,982.58            | 33.60           | 31.76       | -4.86                 | 1,397.54                          | 7,795.49   | 8,374.64             | 8,315.78              | 58.87                   | 142.267           |                    |         |
| 9,263.62                                      | 8,835.00            | 6,659.30            | 4,982.58            | 33.67           | 31.77       | -5.08                 | 1,397.31                          | 7,795.50   | 8,362.57             | 8,303.72              | 58.86                   | 142.081           |                    |         |
| 9,300.00                                      | 8,835.00            | 6,659.93            | 4,982.58            | 33.88           | 31.77       | -5.07                 | 1,396.68                          | 7,795.54   | 8,330.16             | 8,271.33              | 58.83                   | 141.604           |                    |         |
| 9,400.00                                      | 8,835.00            | 6,661.68            | 4,982.58            | 34.53           | 31.80       | -5.04                 | 1,394.93                          | 7,795.63   | 8,241.23             | 8,182.49              | 58.74                   | 140.296           |                    |         |
| 9,500.00                                      | 8,835.00            | 6,663.45            | 4,982.58            | 35.30           | 31.82       | -5.02                 | 1,393.16                          | 7,795.72   | 8,152.56             | 8,093.90              | 58.66                   | 138.981           |                    |         |
| 9,600.00                                      | 8,835.00            | 6,665.25            | 4,982.58            | 36.17           | 31.84       | -4.99                 | 1,391.37                          | 7,795.81   | 8,064.15             | 8,005.57              | 58.58                   | 137.659           |                    |         |
| 9,700.00                                      | 8,835.00            | 6,667.08            | 4,982.58            | 37.13           | 31.87       | -4.96                 | 1,389.54                          | 7,795.91   | 7,976.01             | 7,917.51              | 58.51                   | 136.329           |                    |         |
| 9,800.00                                      | 8,835.00            | 6,668.93            | 4,982.58            | 38.18           | 31.89       | -4.93                 | 1,387.69                          | 7,796.01   | 7,888.16             | 7,829.72              | 58.43                   | 134.992           |                    |         |
| 9,900.00                                      | 8,835.00            | 6,670.82            | 4,982.58            | 39.31           | 31.91       | -4.91                 | 1,385.80                          | 7,796.11   | 7,800.59             | 7,742.23              | 58.37                   | 133.647           |                    |         |
| 10,000.00                                     | 8,835.00            | 6,672.73            | 4,982.58            | 40.51           | 31.94       | -4.88                 | 1,383.89                          | 7,796.21   | 7,713.33             | 7,655.03              | 58.30                   | 132.294           |                    |         |
| 10,100.00                                     | 8,835.00            | 6,674.68            | 4,982.58            | 41.78           | 31.96       | -4.85                 | 1,381.95                          | 7,796.31   | 7,626.38             | 7,568.14              | 58.25                   | 130.933           |                    |         |
| 10,200.00                                     | 8,835.00            | 6,676.65            | 4,982.58            | 43.10           | 31.99       | -4.82                 | 1,379.98                          | 7,796.42   | 7,539.75             | 7,481.56              | 58.19                   | 129.563           |                    |         |
| 10,300.00                                     | 8,835.00            | 6,678.66            | 4,982.58            | 44.49           | 32.02       | -4.79                 | 1,377.98                          | 7,796.53   | 7,453.46             | 7,395.31              | 58.15                   | 128.185           |                    |         |
| 10,400.00                                     | 8,835.00            | 6,680.69            | 4,982.58            | 45.92           | 32.04       | -4.76                 | 1,375.94                          | 7,796.64   | 7,367.51             | 7,309.40              | 58.10                   | 126.797           |                    |         |
| 10,500.00                                     | 8,835.00            | 6,682.77            | 4,982.58            | 47.39           | 32.07       | -4.73                 | 1,373.88                          | 7,796.76   | 7,281.92             | 7,223.85              | 58.07                   | 125.400           |                    |         |
| 10,600.00                                     | 8,835.00            | 6,684.87            | 4,982.58            | 48.91           | 32.10       | -4.69                 | 1,371.77                          | 7,796.88   | 7,196.70             | 7,138.65              | 58.04                   | 123.994           |                    |         |
| 10,700.00                                     | 8,835.00            | 6,687.01            | 4,982.57            | 50.47           | 32.12       | -4.66                 | 1,369.64                          | 7,797.00   | 7,111.86             | 7,053.84              | 58.02                   | 122.578           |                    |         |
| 10,800.00                                     | 8,835.00            | 6,689.19            | 4,982.57            | 52.06           | 32.15       | -4.63                 | 1,367.47                          | 7,797.12   | 7,027.42             | 6,969.41              | 58.00                   | 121.152           |                    |         |
| 10,900.00                                     | 8,835.00            | 6,691.40            | 4,982.57            | 53.68           | 32.18       | -4.60                 | 1,365.26                          | 7,797.25   | 6,943.39             | 6,885.39              | 58.00                   | 119.717           |                    |         |
| 11,000.00                                     | 8,835.00            | 6,693.65            | 4,982.57            | 55.32           | 32.21       | -4.56                 | 1,363.01                          | 7,797.38   | 6,859.78             | 6,801.78              | 58.00                   | 118.271           |                    |         |
| 11,100.00                                     | 8,835.00            | 6,717.00            | 4,982.53            | 57.00           | 32.51       | -4.21                 | 1,339.70                          | 7,798.78   | 6,776.70             | 6,718.47              | 58.23                   | 116.377           |                    |         |
| 11,200.00                                     | 8,835.00            | 6,717.00            | 4,982.53            | 58.70           | 32.51       | -4.21                 | 1,339.70                          | 7,798.78   | 6,693.98             | 6,635.76              | 58.22                   | 114.968           |                    |         |
| 11,300.00                                     | 8,835.00            | 6,717.00            | 4,982.53            | 60.41           | 32.51       | -4.21                 | 1,339.70                          | 7,798.78   | 6,611.74             | 6,553.51              | 58.23                   | 113.548           |                    |         |
| 11,400.00                                     | 8,835.00            | 6,717.00            | 4,982.53            | 62.15           | 32.51       | -4.21                 | 1,339.70                          | 7,798.78   | 6,530.00             | 6,471.76              | 58.24                   | 112.117           |                    |         |
| 11,500.00                                     | 8,835.00            | 6,717.00            | 4,982.53            | 63.91           | 32.51       | -4.21                 | 1,339.70                          | 7,798.78   | 6,448.77             | 6,390.50              | 58.27                   | 110.675           |                    |         |
| 11,600.00                                     | 8,835.00            | 11,600.00           | 4,983.03            | 65.69           | 97.02       | -3.63                 | 1,301.38                          | 7,801.17   | 6,367.96             | 6,253.78              | 114.18                  | 55.771            |                    |         |
| 11,700.00                                     | 8,835.00            | 11,700.00           | 4,983.10            | 67.47           | 98.35       | -3.55                 | 1,295.76                          | 7,801.52   | 6,287.78             | 6,172.66              | 115.12                  | 54.618            |                    |         |
| 11,800.00                                     | 8,835.00            | 11,800.00           | 4,983.18            | 69.28           | 99.67       | -3.46                 | 1,290.14                          | 7,801.87   | 6,208.17             | 6,092.12              | 116.06                  | 53.491            |                    |         |
| 11,900.00                                     | 8,835.00            | 11,900.00           | 4,983.25            | 71.09           | 101.00      | -3.38                 | 1,284.52                          | 7,802.22   | 6,129.16             | 6,012.17              | 116.99                  | 52.391            |                    |         |
| 12,000.00                                     | 8,835.00            | 12,000.00           | 4,983.33            | 72.92           | 102.32      | -3.29                 | 1,278.90                          | 7,802.57   | 6,050.76             | 5,932.85              | 117.91                  | 51.317            |                    |         |
| 12,100.00                                     | 8,835.00            | 12,100.00           | 4,983.40            | 74.76           | 103.65      | -3.21                 | 1,273.28                          | 7,802.92   | 5,973.00             | 5,854.18              | 118.82                  | 50.269            |                    |         |
| 12,200.00                                     | 8,835.00            | 6,838.04            | 4,984.51            | 76.61           | 34.10       | -2.38                 | 1,218.92                          | 7,806.32   | 5,895.86             | 5,835.93              | 59.93                   | 98.382            |                    |         |
| 12,300.00                                     | 8,835.00            | 6,842.33            | 4,984.63            | 78.47           | 34.16       | -2.32                 | 1,214.64                          | 7,806.60   | 5,819.41             | 5,759.33              | 60.08                   | 96.855            |                    |         |
| 12,400.00                                     | 8,835.00            | 6,846.64            | 4,984.74            | 80.34           | 34.21       | -2.25                 | 1,210.34                          | 7,806.87   | 5,743.68             | 5,683.43              | 60.25                   | 95.326            |                    |         |
| 12,500.00                                     | 8,835.00            | 6,850.97            | 4,984.86            | 82.22           | 34.27       | -2.19                 | 1,206.02                          | 7,807.14   | 5,668.70             | 5,608.26              | 60.44                   | 93.794            |                    |         |
| 12,600.00                                     | 8,835.00            | 6,855.32            | 4,984.97            | 84.11           | 34.33       | -2.12                 | 1,201.68                          | 7,807.42   | 5,594.49             | 5,533.86              | 60.64                   | 92.261            |                    |         |
| 12,700.00                                     | 8,835.00            | 6,859.70            | 4,985.09            | 86.00           | 34.39       | -2.06                 | 1,197.31                          | 7,807.70   | 5,521.10             | 5,460.24              | 60.85                   | 90.727            |                    |         |
| 12,800.00                                     | 8,835.00            | 6,864.09            | 4,985.20            | 87.90           | 34.45       | -1.99                 | 1,192.93                          | 7,807.98   | 5,448.54             | 5,387.46              | 61.09                   | 89.194            |                    |         |
| 12,900.00                                     | 8,835.00            | 6,868.51            | 4,985.31            | 89.81           | 34.50       | -1.92                 | 1,188.52                          | 7,808.26   | 5,376.87             | 5,315.53              | 61.34                   | 87.663            |                    |         |
| 13,000.00                                     | 8,835.00            | 6,872.95            | 4,985.43            | 91.72           | 34.56       | -1.86                 | 1,184.09                          | 7,808.55   | 5,306.10             | 5,244.50              | 61.60                   | 86.135            |                    |         |
| 13,100.00                                     | 8,835.00            | 6,877.42            | 4,985.54            | 93.64           | 34.62       | -1.79                 | 1,179.63                          | 7,808.84   | 5,236.28             | 5,174.40              | 61.89                   | 84.611            |                    |         |
| 13,200.00                                     | 8,835.00            | 6,881.90            | 4,985.65            | 95.56           | 34.68       | -1.72                 | 1,175.16                          | 7,809.13   | 5,167.45             | 5,105.26              | 62.19                   | 83.093            |                    |         |
| 13,300.00                                     | 8,835.00            | 6,886.41            | 4,985.76            | 97.49           | 34.74       | -1.65                 | 1,170.66                          | 7,809.42   | 5,099.65             | 5,037.14              | 62.51                   | 81.583            |                    |         |
| 13,400.00                                     | 8,835.00            | 6,890.94            | 4,985.87            | 99.42           | 34.80       | -1.58                 | 1,166.14                          | 7,809.71   | 5,032.91             | 4,970.07              | 62.85                   | 80.082            |                    |         |
| 13,500.00                                     | 8,835.00            | 6,895.50            | 4,985.99            | 101.36          | 34.86       | -1.51                 | 1,161.60                          | 7,810.01   | 4,967.29             | 4,904.09              | 63.20                   | 78.591            |                    |         |
| 13,600.00                                     | 8,835.00            | 6,900.08            | 4,986.10            | 103.30          | 34.92       | -1.44                 | 1,157.03                          | 7,810.31   | 4,902.82             | 4,839.24              | 63.58                   | 77.113            |                    |         |
| 13,700.00                                     | 8,835.00            | 6,906.00            | 4,986.24            | 105.25          | 35.00       | -1.36                 | 1,151.12                          | 7,810.69   | 4,839.56             | 4,775.57              | 63.98                   | 75.637            |                    |         |
| 13,800.00                                     | 8,835.00            | 6,917.62            | 4,986.51            | 107.20          | 35.16       | -1.18                 | 1,139.53                          | 7,811.44   | 4,777.54             | 4,713.09              | 64.45                   | 74.128            |                    |         |
| 13,900.00                                     | 8,835.00            | 6,932.48            | 4,986.87            | 109.15          | 35.35       | -0.95                 | 1,124.70                          | 7,812.35   | 4,716.80             | 4,651.85              | 64.96                   | 72.615            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design      Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 5H - Wellbore #1 - Wellbore #1 |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |           | Offset Site Error:      5.00 ft |         |
|--------------------------------------------------------------------------------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|-----------|---------------------------------|---------|
| Survey Program:      233-GYRO-NS-CT, 4541-MWD+HDGM                                               |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |           | Offset Well Error:      0.50 ft |         |
| Reference                                                                                        |                | Offset         |                | Semi Major Axis |        |                   | Distance               |                 |                  |                    |                   |           |                                 | Warning |
| Measured Depth                                                                                   | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor |           |                                 |         |
| (ft)                                                                                             | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft)      | (ft)             | (ft)               | (ft)              |           |                                 |         |
| 14,000.00                                                                                        | 8,835.00       | 6,945.90       | 4,987.20       | 111.10          | 35.53  | -0.75             | 1,111.30               | 7,813.15        | 4,657.41         | 4,591.94           | 65.47             | 71.139    |                                 |         |
| 14,100.00                                                                                        | 8,835.00       | 6,958.10       | 4,987.50       | 113.06          | 35.70  | -0.57             | 1,099.13               | 7,813.83        | 4,599.40         | 4,533.42           | 65.99             | 69.699    |                                 |         |
| 14,200.00                                                                                        | 8,835.00       | 6,969.22       | 4,987.77       | 115.03          | 35.85  | -0.40             | 1,088.03               | 7,814.44        | 4,542.85         | 4,476.33           | 66.52             | 68.294    |                                 |         |
| 14,300.00                                                                                        | 8,835.00       | 6,979.41       | 4,988.02       | 116.99          | 35.98  | -0.24             | 1,077.86               | 7,814.97        | 4,487.80         | 4,420.74           | 67.06             | 66.923    |                                 |         |
| 14,400.00                                                                                        | 8,835.00       | 6,988.77       | 4,988.26       | 118.96          | 36.11  | -0.10             | 1,068.51               | 7,815.44        | 4,434.32         | 4,366.71           | 67.61             | 65.587    |                                 |         |
| 14,500.00                                                                                        | 8,835.00       | 6,997.41       | 4,988.48       | 120.93          | 36.22  | 0.03              | 1,059.89               | 7,815.86        | 4,382.45         | 4,314.28           | 68.17             | 64.285    |                                 |         |
| 14,600.00                                                                                        | 8,835.00       | 7,005.40       | 4,988.68       | 122.90          | 36.33  | 0.15              | 1,051.91               | 7,816.23        | 4,332.26         | 4,263.52           | 68.75             | 63.018    |                                 |         |
| 14,700.00                                                                                        | 8,835.00       | 7,012.82       | 4,988.87       | 124.88          | 36.43  | 0.27              | 1,044.50               | 7,816.57        | 4,283.82         | 4,214.48           | 69.33             | 61.787    |                                 |         |
| 14,800.00                                                                                        | 8,835.00       | 7,008.90       | 4,988.77       | 126.86          | 36.38  | 0.21              | 1,048.41               | 7,816.40        | 4,237.18         | 4,167.33           | 69.86             | 60.656    |                                 |         |
| 14,900.00                                                                                        | 8,835.00       | 7,012.25       | 4,988.85       | 128.84          | 36.42  | 0.26              | 1,045.07               | 7,816.56        | 4,192.41         | 4,121.96           | 70.45             | 59.512    |                                 |         |
| 15,000.00                                                                                        | 8,835.00       | 7,015.61       | 4,988.93       | 130.82          | 36.47  | 0.31              | 1,041.71               | 7,816.72        | 4,149.56         | 4,078.50           | 71.05             | 58.401    |                                 |         |
| 15,100.00                                                                                        | 8,835.00       | 7,019.00       | 4,989.01       | 132.80          | 36.51  | 0.36              | 1,038.33               | 7,816.88        | 4,108.69         | 4,037.01           | 71.67             | 57.324    |                                 |         |
| 15,200.00                                                                                        | 8,835.00       | 7,022.39       | 4,989.10       | 134.79          | 36.56  | 0.41              | 1,034.94               | 7,817.04        | 4,069.86         | 3,997.55           | 72.31             | 56.282    |                                 |         |
| 15,300.00                                                                                        | 8,835.00       | 7,025.81       | 4,989.18       | 136.78          | 36.60  | 0.46              | 1,031.53               | 7,817.20        | 4,033.14         | 3,960.18           | 72.96             | 55.276    |                                 |         |
| 15,400.00                                                                                        | 8,835.00       | 7,029.24       | 4,989.26       | 138.76          | 36.65  | 0.51              | 1,028.10               | 7,817.37        | 3,998.58         | 3,924.95           | 73.63             | 54.306    |                                 |         |
| 15,500.00                                                                                        | 8,835.00       | 7,032.69       | 4,989.34       | 140.76          | 36.69  | 0.57              | 1,024.65               | 7,817.53        | 3,966.24         | 3,891.93           | 74.31             | 53.373    |                                 |         |
| 15,600.00                                                                                        | 8,835.00       | 7,036.16       | 4,989.43       | 142.75          | 36.74  | 0.62              | 1,021.19               | 7,817.70        | 3,936.17         | 3,861.16           | 75.01             | 52.477    |                                 |         |
| 15,700.00                                                                                        | 8,835.00       | 7,039.65       | 4,989.51       | 144.74          | 36.79  | 0.67              | 1,017.71               | 7,817.87        | 3,908.42         | 3,832.70           | 75.72             | 51.618    |                                 |         |
| 15,800.00                                                                                        | 8,835.00       | 7,043.15       | 4,989.59       | 146.74          | 36.83  | 0.73              | 1,014.21               | 7,818.04        | 3,883.05         | 3,806.61           | 76.44             | 50.797    |                                 |         |
| 15,900.00                                                                                        | 8,835.00       | 7,046.68       | 4,989.67       | 148.73          | 36.88  | 0.78              | 1,010.69               | 7,818.21        | 3,860.09         | 3,782.91           | 77.18             | 50.014    |                                 |         |
| 16,000.00                                                                                        | 8,835.00       | 7,050.22       | 4,989.75       | 150.73          | 36.93  | 0.83              | 1,007.15               | 7,818.38        | 3,839.61         | 3,761.67           | 77.93             | 49.268    |                                 |         |
| 16,100.00                                                                                        | 8,835.00       | 7,053.78       | 4,989.83       | 152.73          | 36.98  | 0.89              | 1,003.60               | 7,818.56        | 3,821.62         | 3,742.92           | 78.70             | 48.559    |                                 |         |
| 16,200.00                                                                                        | 8,835.00       | 7,057.36       | 4,989.91       | 154.73          | 37.03  | 0.94              | 1,000.03               | 7,818.73        | 3,806.17         | 3,726.69           | 79.48             | 47.887    |                                 |         |
| 16,300.00                                                                                        | 8,835.00       | 7,060.95       | 4,990.00       | 156.73          | 37.07  | 1.00              | 996.43                 | 7,818.91        | 3,793.30         | 3,713.02           | 80.28             | 47.252    |                                 |         |
| 16,400.00                                                                                        | 8,835.00       | 7,064.57       | 4,990.08       | 158.74          | 37.12  | 1.05              | 992.82                 | 7,819.08        | 3,783.02         | 3,701.93           | 81.09             | 46.653    |                                 |         |
| 16,500.00                                                                                        | 8,835.00       | 7,068.20       | 4,990.16       | 160.74          | 37.17  | 1.11              | 989.20                 | 7,819.26        | 3,775.36         | 3,693.45           | 81.91             | 46.091    |                                 |         |
| 16,600.00                                                                                        | 8,835.00       | 7,071.86       | 4,990.24       | 162.74          | 37.22  | 1.16              | 985.55                 | 7,819.44        | 3,770.33         | 3,687.58           | 82.75             | 45.565    |                                 |         |
| 16,700.00                                                                                        | 8,835.00       | 7,075.53       | 4,990.32       | 164.75          | 37.27  | 1.22              | 981.88                 | 7,819.62        | 3,767.95         | 3,684.35           | 83.59             | 45.076    |                                 |         |
| 16,740.01                                                                                        | 8,835.00       | 7,077.00       | 4,990.35       | 165.55          | 37.29  | 1.24              | 980.41                 | 7,819.70        | 3,767.73         | 3,683.80           | 83.93             | 44.890 CC |                                 |         |
| 16,800.00                                                                                        | 8,835.00       | 7,079.22       | 4,990.40       | 166.76          | 37.32  | 1.27              | 978.19                 | 7,819.81        | 3,768.21         | 3,683.76           | 84.45             | 44.622 ES |                                 |         |
| 16,900.00                                                                                        | 8,835.00       | 7,082.93       | 4,990.48       | 168.77          | 37.37  | 1.33              | 974.48                 | 7,819.99        | 3,771.12         | 3,685.81           | 85.31             | 44.205    |                                 |         |
| 17,000.00                                                                                        | 8,835.00       | 7,086.67       | 4,990.56       | 170.77          | 37.42  | 1.39              | 970.76                 | 7,820.18        | 3,776.68         | 3,690.50           | 86.18             | 43.824    |                                 |         |
| 17,100.00                                                                                        | 8,835.00       | 7,090.42       | 4,990.63       | 172.78          | 37.47  | 1.44              | 967.01                 | 7,820.36        | 3,784.86         | 3,697.82           | 87.05             | 43.480    |                                 |         |
| 17,200.00                                                                                        | 8,835.00       | 7,094.19       | 4,990.71       | 174.79          | 37.52  | 1.50              | 963.24                 | 7,820.55        | 3,795.66         | 3,707.75           | 87.92             | 43.173    |                                 |         |
| 17,300.00                                                                                        | 8,835.00       | 7,095.00       | 4,990.73       | 176.81          | 37.53  | 1.51              | 962.44                 | 7,820.59        | 3,809.05         | 3,720.29           | 88.76             | 42.914    |                                 |         |
| 17,400.00                                                                                        | 8,835.00       | 7,100.92       | 4,990.85       | 178.82          | 37.61  | 1.60              | 956.53                 | 7,820.89        | 3,825.01         | 3,735.37           | 89.64             | 42.672    |                                 |         |
| 17,500.00                                                                                        | 8,835.00       | 7,104.14       | 4,990.92       | 180.83          | 37.65  | 1.65              | 953.31                 | 7,821.05        | 3,843.50         | 3,753.01           | 90.48             | 42.478    |                                 |         |
| 17,600.00                                                                                        | 8,835.00       | 7,107.31       | 4,990.98       | 182.84          | 37.70  | 1.70              | 950.15                 | 7,821.20        | 3,864.48         | 3,773.17           | 91.31             | 42.321    |                                 |         |
| 17,700.00                                                                                        | 8,835.00       | 7,110.41       | 4,991.04       | 184.86          | 37.74  | 1.75              | 947.05                 | 7,821.35        | 3,887.92         | 3,795.79           | 92.13             | 42.201    |                                 |         |
| 17,800.00                                                                                        | 8,835.00       | 7,113.46       | 4,991.10       | 186.87          | 37.78  | 1.79              | 944.01                 | 7,821.49        | 3,913.77         | 3,820.85           | 92.92             | 42.118    |                                 |         |
| 17,900.00                                                                                        | 8,835.00       | 7,116.44       | 4,991.16       | 188.89          | 37.82  | 1.84              | 941.02                 | 7,821.64        | 3,941.99         | 3,848.29           | 93.70             | 42.072    |                                 |         |
| 18,000.00                                                                                        | 8,835.00       | 7,119.38       | 4,991.22       | 190.91          | 37.86  | 1.88              | 938.09                 | 7,821.77        | 3,972.52         | 3,878.08           | 94.45             | 42.061 SF |                                 |         |
| 18,100.00                                                                                        | 8,835.00       | 7,122.26       | 4,991.27       | 192.92          | 37.90  | 1.93              | 935.22                 | 7,821.91        | 4,005.32         | 3,910.14           | 95.17             | 42.086    |                                 |         |
| 18,200.00                                                                                        | 8,835.00       | 7,125.09       | 4,991.33       | 194.94          | 37.94  | 1.97              | 932.39                 | 7,822.04        | 4,040.32         | 3,944.45           | 95.87             | 42.145    |                                 |         |
| 18,300.00                                                                                        | 8,835.00       | 7,127.86       | 4,991.38       | 196.96          | 37.97  | 2.01              | 929.62                 | 7,822.17        | 4,077.47         | 3,980.93           | 96.54             | 42.238    |                                 |         |
| 18,400.00                                                                                        | 8,835.00       | 7,130.59       | 4,991.43       | 198.98          | 38.01  | 2.05              | 926.89                 | 7,822.29        | 4,116.71         | 4,019.53           | 97.17             | 42.364    |                                 |         |
| 18,500.00                                                                                        | 8,835.00       | 7,133.27       | 4,991.48       | 201.00          | 38.05  | 2.10              | 924.22                 | 7,822.41        | 4,157.98         | 4,060.20           | 97.78             | 42.522    |                                 |         |
| 18,600.00                                                                                        | 8,835.00       | 7,135.90       | 4,991.53       | 203.02          | 38.08  | 2.14              | 921.59                 | 7,822.53        | 4,201.23         | 4,102.87           | 98.36             | 42.712    |                                 |         |
| 18,700.00                                                                                        | 8,835.00       | 7,138.49       | 4,991.57       | 205.04          | 38.12  | 2.17              | 919.00                 | 7,822.65        | 4,246.39         | 4,147.48           | 98.91             | 42.931    |                                 |         |
| 18,800.00                                                                                        | 8,835.00       | 7,141.03       | 4,991.62       | 207.06          | 38.15  | 2.21              | 916.46                 | 7,822.76        | 4,293.40         | 4,193.97           | 99.43             | 43.180    |                                 |         |
| 18,900.00                                                                                        | 8,835.00       | 7,143.53       | 4,991.66       | 209.08          | 38.19  | 2.25              | 913.97                 | 7,822.87        | 4,342.20         | 4,242.29           | 99.92             | 43.457    |                                 |         |
| 19,000.00                                                                                        | 8,835.00       | 7,145.99       | 4,991.71       | 211.10          | 38.22  | 2.29              | 911.51                 | 7,822.98        | 4,392.74         | 4,292.36           | 100.38            | 43.762    |                                 |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

|                            |                            |                                                                               |                            |                        |                    |                              |                                          |                   |                             |                              |                                |                           |                |
|----------------------------|----------------------------|-------------------------------------------------------------------------------|----------------------------|------------------------|--------------------|------------------------------|------------------------------------------|-------------------|-----------------------------|------------------------------|--------------------------------|---------------------------|----------------|
| <b>Offset Design</b>       |                            | Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 5H - Wellbore #1 - Wellbore #1 |                            |                        |                    |                              |                                          |                   |                             |                              |                                | <b>Offset Site Error:</b> | 5.00 ft        |
| <b>Survey Program:</b>     |                            | 233-GYRO-NS-CT, 4541-MWD+HDGM                                                 |                            |                        |                    |                              |                                          |                   |                             |                              |                                | <b>Offset Well Error:</b> | 0.50 ft        |
| <b>Reference</b>           |                            | <b>Offset</b>                                                                 |                            | <b>Semi Major Axis</b> |                    |                              | <b>Distance</b>                          |                   |                             |                              |                                |                           | <b>Warning</b> |
| <b>Measured Depth (ft)</b> | <b>Vertical Depth (ft)</b> | <b>Measured Depth (ft)</b>                                                    | <b>Vertical Depth (ft)</b> | <b>Reference (ft)</b>  | <b>Offset (ft)</b> | <b>Highside Toolface (°)</b> | <b>Offset Wellbore Centre +N/-S (ft)</b> | <b>+E/-W (ft)</b> | <b>Between Centres (ft)</b> | <b>Between Ellipses (ft)</b> | <b>Minimum Separation (ft)</b> | <b>Separation Factor</b>  |                |
| 19,100.00                  | 8,835.00                   | 7,148.41                                                                      | 4,991.75                   | 213.12                 | 38.25              | 2.33                         | 909.10                                   | 7,823.08          | 4,444.95                    | 4,344.14                     | 100.81                         | 44.092                    |                |
| 19,200.00                  | 8,835.00                   | 7,150.78                                                                      | 4,991.79                   | 215.15                 | 38.28              | 2.36                         | 906.72                                   | 7,823.18          | 4,498.77                    | 4,397.56                     | 101.21                         | 44.448                    |                |
| 19,308.27                  | 8,835.00                   | 7,153.31                                                                      | 4,991.83                   | 217.34                 | 38.32              | 2.40                         | 904.20                                   | 7,823.29          | 4,558.81                    | 4,457.18                     | 101.62                         | 44.861                    |                |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDCS Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                             |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 81-GYRO-NS, 7138-MWD+IGRF |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.00 ft |
| Reference                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                                      | 0.00                | 0.00                | 0.00                | 0.50            | 5.00        | 69.70                 | 3,114.34                          | 8,421.08   | 8,978.81             |                       |                         |                   |                    |         |
| 100.00                                    | 100.00              | 33.10               | 33.10               | 0.52            | 5.00        | 69.70                 | 3,114.29                          | 8,421.08   | 8,978.50             | 8,972.98              | 5.52                    | 1,627.153         |                    |         |
| 200.00                                    | 200.00              | 140.30              | 140.30              | 0.70            | 5.01        | 69.71                 | 3,113.68                          | 8,421.14   | 8,978.35             | 8,972.64              | 5.71                    | 1,571.984         |                    |         |
| 284.50                                    | 284.50              | 211.31              | 211.30              | 0.94            | 5.03        | 69.71                 | 3,113.39                          | 8,421.17   | 8,978.27             | 8,972.30              | 5.97                    | 1,503.778         |                    |         |
| 300.00                                    | 300.00              | 222.86              | 222.86              | 0.99            | 5.04        | 69.71                 | 3,113.38                          | 8,421.18   | 8,978.27             | 8,972.25              | 6.02                    | 1,490.776         |                    |         |
| 400.00                                    | 400.00              | 303.42              | 303.42              | 1.31            | 5.08        | 69.71                 | 3,113.65                          | 8,421.23   | 8,978.44             | 8,972.06              | 6.39                    | 1,406.146         |                    |         |
| 500.00                                    | 500.00              | 397.47              | 397.47              | 1.65            | 5.14        | 69.71                 | 3,114.27                          | 8,421.31   | 8,978.76             | 8,971.97              | 6.79                    | 1,322.546         |                    |         |
| 600.00                                    | 600.00              | 496.76              | 496.76              | 1.99            | 5.23        | 69.70                 | 3,115.03                          | 8,421.37   | 8,979.08             | 8,971.85              | 7.23                    | 1,242.670         |                    |         |
| 700.00                                    | 700.00              | 589.76              | 589.75              | 2.34            | 5.34        | 69.70                 | 3,115.81                          | 8,421.45   | 8,979.44             | 8,971.76              | 7.68                    | 1,169.245         |                    |         |
| 800.00                                    | 800.00              | 681.17              | 681.16              | 2.69            | 5.46        | 69.69                 | 3,116.69                          | 8,421.57   | 8,979.91             | 8,971.75              | 8.15                    | 1,101.631         |                    |         |
| 900.00                                    | 900.00              | 778.02              | 778.00              | 3.04            | 5.61        | 69.69                 | 3,117.77                          | 8,421.73   | 8,980.44             | 8,971.79              | 8.65                    | 1,038.292         |                    |         |
| 1,000.00                                  | 1,000.00            | 886.30              | 886.26              | 3.40            | 5.79        | 69.68                 | 3,119.21                          | 8,421.79   | 8,980.96             | 8,971.77              | 9.18                    | 977.827           |                    |         |
| 1,100.00                                  | 1,100.00            | 974.56              | 974.52              | 3.75            | 5.95        | 69.67                 | 3,120.48                          | 8,421.76   | 8,981.44             | 8,971.73              | 9.70                    | 925.814           |                    |         |
| 1,200.00                                  | 1,200.00            | 1,057.10            | 1,057.05            | 4.11            | 6.11        | 69.66                 | 3,121.91                          | 8,421.84   | 8,982.13             | 8,971.91              | 10.22                   | 879.048           |                    |         |
| 1,300.00                                  | 1,300.00            | 1,137.35            | 1,137.28            | 4.46            | 6.28        | 69.65                 | 3,123.22                          | 8,422.10   | 8,983.00             | 8,972.26              | 10.74                   | 836.442           |                    |         |
| 1,400.00                                  | 1,400.00            | 1,224.69            | 1,224.61            | 4.82            | 6.47        | 69.65                 | 3,124.39                          | 8,422.70   | 8,984.11             | 8,972.82              | 11.29                   | 796.109           |                    |         |
| 1,500.00                                  | 1,500.00            | 1,391.89            | 1,391.80            | 5.18            | 6.85        | 69.63                 | 3,126.84                          | 8,423.25   | 8,984.96             | 8,972.93              | 12.03                   | 747.017           |                    |         |
| 1,600.00                                  | 1,600.00            | 1,472.00            | 1,471.90            | 5.53            | 7.05        | 69.63                 | 3,128.12                          | 8,423.20   | 8,985.46             | 8,972.88              | 12.58                   | 714.315           |                    |         |
| 1,700.00                                  | 1,700.00            | 1,543.04            | 1,542.93            | 5.89            | 7.23        | 69.62                 | 3,129.29                          | 8,423.36   | 8,986.24             | 8,973.12              | 13.11                   | 685.278           |                    |         |
| 1,800.00                                  | 1,800.00            | 1,617.31            | 1,617.19            | 6.25            | 7.42        | 69.61                 | 3,130.47                          | 8,423.78   | 8,987.32             | 8,973.66              | 13.66                   | 657.934           |                    |         |
| 1,900.00                                  | 1,900.00            | 1,733.43            | 1,733.29            | 6.61            | 7.72        | 69.60                 | 3,132.27                          | 8,424.65   | 8,988.58             | 8,974.25              | 14.32                   | 627.595           |                    |         |
| 2,000.00                                  | 2,000.00            | 1,852.91            | 1,852.75            | 6.96            | 8.05        | 69.59                 | 3,134.37                          | 8,425.01   | 8,989.47             | 8,974.47              | 15.00                   | 599.182           |                    |         |
| 2,100.00                                  | 2,099.99            | 1,934.76            | 1,934.59            | 7.32            | 8.27        | 82.36                 | 3,135.81                          | 8,425.29   | 8,990.29             | 8,974.70              | 15.59                   | 576.817           |                    |         |
| 2,200.00                                  | 2,199.96            | 2,043.17            | 2,042.97            | 7.68            | 8.58        | 82.36                 | 3,137.99                          | 8,425.63   | 8,990.93             | 8,974.68              | 16.25                   | 553.360           |                    |         |
| 2,300.00                                  | 2,299.86            | 2,102.71            | 2,102.50            | 8.04            | 8.75        | 82.37                 | 3,139.14                          | 8,425.95   | 8,991.53             | 8,974.75              | 16.77                   | 536.053           |                    |         |
| 2,400.00                                  | 2,399.68            | 2,251.73            | 2,251.49            | 8.39            | 9.18        | 82.40                 | 3,142.04                          | 8,426.62   | 8,991.81             | 8,974.25              | 17.56                   | 511.980           |                    |         |
| 2,433.12                                  | 2,432.70            | 2,270.06            | 2,269.82            | 8.51            | 9.24        | 82.41                 | 3,142.44                          | 8,426.65   | 8,991.80             | 8,974.07              | 17.73                   | 507.027           |                    |         |
| 2,500.00                                  | 2,499.37            | 2,320.50            | 2,320.24            | 8.75            | 9.39        | 82.43                 | 3,143.58                          | 8,426.89   | 8,991.88             | 8,973.76              | 18.12                   | 496.213           |                    |         |
| 2,600.00                                  | 2,598.90            | 2,378.65            | 2,378.38            | 9.11            | 9.56        | 82.46                 | 3,144.87                          | 8,427.37   | 8,992.10             | 8,973.46              | 18.65                   | 482.178           |                    |         |
| 2,700.00                                  | 2,698.26            | 2,552.42            | 2,552.10            | 9.46            | 10.08       | 82.56                 | 3,148.83                          | 8,428.00   | 8,991.69             | 8,972.16              | 19.53                   | 460.413           |                    |         |
| 2,800.00                                  | 2,797.40            | 2,615.30            | 2,614.96            | 9.82            | 10.28       | 82.61                 | 3,150.43                          | 8,428.11   | 8,991.03             | 8,970.95              | 20.08                   | 447.815           |                    |         |
| 2,900.00                                  | 2,896.30            | 2,695.38            | 2,695.01            | 10.18           | 10.52       | 82.68                 | 3,152.50                          | 8,428.47   | 8,990.45             | 8,969.77              | 20.68                   | 434.731           |                    |         |
| 3,000.00                                  | 2,994.93            | 2,806.21            | 2,805.80            | 10.54           | 10.87       | 82.79                 | 3,155.51                          | 8,428.98   | 8,989.71             | 8,968.33              | 21.38                   | 420.427           |                    |         |
| 3,100.00                                  | 3,093.26            | 2,886.00            | 2,885.56            | 10.90           | 11.11       | 82.88                 | 3,157.70                          | 8,429.34   | 8,988.79             | 8,966.80              | 21.99                   | 408.755           |                    |         |
| 3,195.07                                  | 3,186.42            | 2,943.76            | 2,943.30            | 11.24           | 11.30       | 82.95                 | 3,159.21                          | 8,429.81   | 8,988.02             | 8,965.51              | 22.51                   | 399.213           |                    |         |
| 3,200.00                                  | 3,191.25            | 2,946.49            | 2,946.03            | 11.26           | 11.30       | 82.95                 | 3,159.27                          | 8,429.84   | 8,987.99             | 8,965.45              | 22.54                   | 398.745           |                    |         |
| 3,300.00                                  | 3,289.08            | 3,108.50            | 3,107.97            | 11.62           | 11.82       | 83.14                 | 3,163.36                          | 8,431.15   | 8,987.10             | 8,963.68              | 23.42                   | 383.787           |                    |         |
| 3,400.00                                  | 3,386.91            | 3,186.50            | 3,185.95            | 11.98           | 12.07       | 83.23                 | 3,165.38                          | 8,431.52   | 8,985.94             | 8,961.91              | 24.03                   | 373.949           |                    |         |
| 3,500.00                                  | 3,484.74            | 3,270.82            | 3,270.24            | 12.35           | 12.34       | 83.33                 | 3,167.58                          | 8,432.09   | 8,985.00             | 8,960.33              | 24.67                   | 364.268           |                    |         |
| 3,600.00                                  | 3,582.58            | 3,364.44            | 3,363.82            | 12.72           | 12.64       | 83.44                 | 3,170.06                          | 8,432.80   | 8,984.19             | 8,958.86              | 25.33                   | 354.619           |                    |         |
| 3,700.00                                  | 3,680.41            | 3,467.38            | 3,466.73            | 13.09           | 12.97       | 83.56                 | 3,172.74                          | 8,433.63   | 8,983.45             | 8,957.42              | 26.04                   | 345.030           |                    |         |
| 3,800.00                                  | 3,778.24            | 3,685.69            | 3,684.98            | 13.46           | 13.68       | 83.82                 | 3,176.88                          | 8,433.16   | 8,981.00             | 8,953.88              | 27.11                   | 331.221           |                    |         |
| 3,900.00                                  | 3,876.08            | 3,731.50            | 3,730.79            | 13.83           | 13.83       | 83.89                 | 3,176.67                          | 8,433.66   | 8,979.43             | 8,951.79              | 27.64                   | 324.913           |                    |         |
| 4,000.00                                  | 3,973.91            | 4,000.00            | 3,800.01            | 14.21           | 14.70       | 83.98                 | 3,177.08                          | 8,434.34   | 8,978.29             | 8,949.40              | 28.89                   | 310.803           |                    |         |
| 4,100.00                                  | 4,071.74            | 3,881.71            | 3,880.97            | 14.58           | 14.32       | 84.07                 | 3,178.47                          | 8,434.76   | 8,977.18             | 8,948.31              | 28.87                   | 310.901           |                    |         |
| 4,200.00                                  | 4,169.57            | 3,940.61            | 3,939.85            | 14.96           | 14.51       | 84.15                 | 3,179.65                          | 8,435.35   | 8,976.61             | 8,947.16              | 29.44                   | 304.883           |                    |         |
| 4,300.00                                  | 4,267.41            | 4,027.81            | 4,027.03            | 15.33           | 14.80       | 84.25                 | 3,181.13                          | 8,436.54   | 8,976.34             | 8,946.24              | 30.11                   | 298.160           |                    |         |
| 4,400.00                                  | 4,365.24            | 4,184.22            | 4,183.42            | 15.71           | 15.31       | 84.45                 | 3,182.77                          | 8,438.64   | 8,975.94             | 8,944.94              | 31.00                   | 289.545           |                    |         |
| 4,500.00                                  | 4,463.07            | 4,260.68            | 4,259.87            | 16.09           | 15.57       | 84.56                 | 3,182.43                          | 8,439.77   | 8,975.22             | 8,943.59              | 31.63                   | 283.750           |                    |         |
| 4,600.00                                  | 4,560.90            | 4,340.15            | 4,339.33            | 16.47           | 15.83       | 84.66                 | 3,183.13                          | 8,440.88   | 8,974.85             | 8,942.58              | 32.27                   | 278.096           |                    |         |
| 4,700.00                                  | 4,658.74            | 4,700.00            | 4,623.23            | 16.85           | 17.03       | 84.90                 | 3,184.42                          | 8,443.16   | 8,974.54             | 8,940.69              | 33.85                   | 265.123           |                    |         |
| 4,800.00                                  | 4,756.57            | 4,622.10            | 4,621.24            | 17.23           | 16.77       | 85.02                 | 3,185.67                          | 8,443.29   | 8,973.22             | 8,939.24              | 33.97                   | 264.145           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                             |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 8H - Original Hole - Actuals |         | Offset Site Error: 5.00 ft |  |
|-------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|-----------------------------------------------------------------------------|---------|----------------------------|--|
| Survey Program: 81-GYRO-NS, 7138-MWD+IGRF |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: 0.00 ft                                                  |         |                            |  |
| Reference                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                                                                             | Warning |                            |  |
| Measured Depth (ft)                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                                                                             |         |                            |  |
| 4,900.00                                  | 4,854.40            | 4,671.00            | 4,670.14            | 17.61           | 16.93       | 85.09                 | 3,186.17                          | 8,443.69   | 8,972.44             | 8,937.93              | 34.51                   | 259.962           |                                                                             |         |                            |  |
| 5,000.00                                  | 4,952.23            | 4,765.98            | 4,765.11            | 17.99           | 17.25       | 85.21                 | 3,187.15                          | 8,444.76   | 8,972.06             | 8,936.84              | 35.21                   | 254.792           |                                                                             |         |                            |  |
| 5,100.00                                  | 5,050.07            | 4,859.84            | 4,858.96            | 18.37           | 17.56       | 85.33                 | 3,188.29                          | 8,445.68   | 8,971.63             | 8,935.72              | 35.91                   | 249.841           |                                                                             |         |                            |  |
| 5,200.00                                  | 5,147.90            | 10,290.19           | 7,778.19            | 18.75           | 59.52       | 107.09                | 376.18                            | 8,420.17   | 8,958.45             | 8,883.22              | 75.23                   | 119.083           |                                                                             |         |                            |  |
| 5,300.00                                  | 5,245.73            | 10,279.66           | 7,777.90            | 19.14           | 59.34       | 107.03                | 386.70                            | 8,420.45   | 8,934.15             | 8,858.52              | 75.63                   | 118.127           |                                                                             |         |                            |  |
| 5,400.00                                  | 5,343.56            | 10,268.83           | 7,777.63            | 19.52           | 59.15       | 106.95                | 397.52                            | 8,420.73   | 8,910.88             | 8,834.85              | 76.03                   | 117.209           |                                                                             |         |                            |  |
| 5,500.00                                  | 5,441.40            | 10,257.69           | 7,777.39            | 19.90           | 58.96       | 106.88                | 408.66                            | 8,421.03   | 8,888.65             | 8,812.24              | 76.41                   | 116.332           |                                                                             |         |                            |  |
| 5,600.00                                  | 5,539.23            | 10,242.00           | 7,777.09            | 20.29           | 58.69       | 106.78                | 424.34                            | 8,421.45   | 8,867.47             | 8,790.76              | 76.71                   | 115.599           |                                                                             |         |                            |  |
| 5,700.00                                  | 5,637.06            | 10,242.00           | 7,777.09            | 20.67           | 58.69       | 106.78                | 424.34                            | 8,421.45   | 8,847.35             | 8,770.09              | 77.27                   | 114.505           |                                                                             |         |                            |  |
| 5,800.00                                  | 5,734.90            | 10,225.28           | 7,776.83            | 21.05           | 58.40       | 106.67                | 441.05                            | 8,421.90   | 8,828.29             | 8,750.75              | 77.54                   | 113.856           |                                                                             |         |                            |  |
| 5,900.00                                  | 5,832.73            | 10,214.79           | 7,776.70            | 21.44           | 58.22       | 106.60                | 451.54                            | 8,422.19   | 8,810.31             | 8,732.40              | 77.91                   | 113.084           |                                                                             |         |                            |  |
| 6,000.00                                  | 5,930.56            | 10,204.08           | 7,776.58            | 21.83           | 58.04       | 106.53                | 462.24                            | 8,422.49   | 8,793.40             | 8,715.13              | 78.27                   | 112.348           |                                                                             |         |                            |  |
| 6,100.00                                  | 6,028.39            | 10,193.14           | 7,776.49            | 22.21           | 57.85       | 106.46                | 473.18                            | 8,422.81   | 8,777.57             | 8,698.96              | 78.62                   | 111.647           |                                                                             |         |                            |  |
| 6,200.00                                  | 6,126.23            | 9,878.66            | 7,771.74            | 22.60           | 52.49       | 104.42                | 787.55                            | 8,427.24   | 8,762.76             | 8,688.87              | 73.89                   | 118.586           |                                                                             |         |                            |  |
| 6,300.00                                  | 6,224.06            | 9,855.44            | 7,771.06            | 22.98           | 52.10       | 104.27                | 810.77                            | 8,427.20   | 8,748.46             | 8,674.44              | 74.02                   | 118.189           |                                                                             |         |                            |  |
| 6,400.00                                  | 6,321.89            | 9,834.50            | 7,770.45            | 23.37           | 51.75       | 104.14                | 831.69                            | 8,427.16   | 8,735.24             | 8,661.06              | 74.18                   | 117.756           |                                                                             |         |                            |  |
| 6,500.00                                  | 6,419.72            | 9,813.50            | 7,769.85            | 23.76           | 51.40       | 104.00                | 852.69                            | 8,427.11   | 8,723.10             | 8,648.77              | 74.33                   | 117.353           |                                                                             |         |                            |  |
| 6,600.00                                  | 6,517.56            | 9,792.43            | 7,769.25            | 24.14           | 51.05       | 103.86                | 873.75                            | 8,427.05   | 8,712.06             | 8,637.58              | 74.47                   | 116.981           |                                                                             |         |                            |  |
| 6,700.00                                  | 6,615.39            | 9,771.40            | 7,768.65            | 24.53           | 50.69       | 103.72                | 894.77                            | 8,426.97   | 8,702.10             | 8,627.49              | 74.61                   | 116.635           |                                                                             |         |                            |  |
| 6,800.00                                  | 6,713.22            | 9,741.38            | 7,767.82            | 24.92           | 50.20       | 103.53                | 924.78                            | 8,426.84   | 8,693.23             | 8,618.64              | 74.59                   | 116.545           |                                                                             |         |                            |  |
| 6,900.00                                  | 6,811.05            | 9,711.07            | 7,767.01            | 25.30           | 49.69       | 103.33                | 955.08                            | 8,426.66   | 8,685.45             | 8,610.89              | 74.56                   | 116.489           |                                                                             |         |                            |  |
| 7,000.00                                  | 6,908.89            | 9,680.46            | 7,766.21            | 25.69           | 49.18       | 103.13                | 985.67                            | 8,426.43   | 8,678.75             | 8,604.23              | 74.52                   | 116.468           |                                                                             |         |                            |  |
| 7,100.00                                  | 7,006.72            | 9,658.99            | 7,765.66            | 26.08           | 48.83       | 102.99                | 1,007.13                          | 8,426.24   | 8,673.14             | 8,598.52              | 74.62                   | 116.235           |                                                                             |         |                            |  |
| 7,200.00                                  | 7,104.55            | 9,638.70            | 7,765.13            | 26.47           | 48.50       | 102.86                | 1,027.42                          | 8,426.06   | 8,668.64             | 8,593.91              | 74.73                   | 115.998           |                                                                             |         |                            |  |
| 7,216.87                                  | 7,121.05            | 9,635.28            | 7,765.05            | 26.53           | 48.44       | 102.84                | 1,030.84                          | 8,426.03   | 8,667.99             | 8,593.24              | 74.75                   | 115.961           |                                                                             |         |                            |  |
| 7,300.00                                  | 7,202.57            | 9,619.40            | 7,764.64            | 26.85           | 48.18       | 102.69                | 1,046.71                          | 8,425.88   | 8,665.05             | 8,590.20              | 74.85                   | 115.765           |                                                                             |         |                            |  |
| 7,400.00                                  | 7,301.06            | 9,602.96            | 7,764.22            | 27.23           | 47.91       | 102.54                | 1,063.15                          | 8,425.73   | 8,662.02             | 8,587.01              | 75.00                   | 115.489           |                                                                             |         |                            |  |
| 7,500.00                                  | 7,399.97            | 9,589.41            | 7,763.87            | 27.61           | 47.69       | 102.41                | 1,076.69                          | 8,425.59   | 8,659.54             | 8,584.35              | 75.19                   | 115.170           |                                                                             |         |                            |  |
| 7,600.00                                  | 7,499.23            | 9,582.00            | 7,763.68            | 27.98           | 47.57       | 102.34                | 1,084.10                          | 8,425.52   | 8,657.65             | 8,582.19              | 75.46                   | 114.729           |                                                                             |         |                            |  |
| 7,700.00                                  | 7,598.77            | 9,582.00            | 7,763.68            | 28.34           | 47.57       | 102.32                | 1,084.10                          | 8,425.52   | 8,656.35             | 8,580.50              | 75.84                   | 114.137           |                                                                             |         |                            |  |
| 7,800.00                                  | 7,698.53            | 9,582.00            | 7,763.68            | 28.70           | 47.57       | 102.31                | 1,084.10                          | 8,425.52   | 8,655.64             | 8,579.43              | 76.21                   | 113.582           |                                                                             |         |                            |  |
| 7,868.25                                  | 7,766.70            | 9,582.00            | 7,763.68            | 28.93           | 47.57       | 102.31                | 1,084.10                          | 8,425.52   | 8,655.50             | 8,579.05              | 76.45                   | 113.224           |                                                                             |         |                            |  |
| 7,900.00                                  | 7,798.44            | 9,582.00            | 7,763.68            | 29.05           | 47.57       | 102.31                | 1,084.10                          | 8,425.52   | 8,655.53             | 8,578.97              | 76.56                   | 113.061           |                                                                             |         |                            |  |
| 8,000.00                                  | 7,898.42            | 9,582.00            | 7,763.68            | 29.39           | 47.57       | 102.31                | 1,084.10                          | 8,425.52   | 8,656.02             | 8,579.13              | 76.89                   | 112.575           |                                                                             |         |                            |  |
| 8,013.58                                  | 7,912.00            | 9,582.00            | 7,763.68            | 29.43           | 47.57       | 89.54                 | 1,084.10                          | 8,425.52   | 8,656.13             | 8,579.20              | 76.94                   | 112.512           |                                                                             |         |                            |  |
| 8,100.00                                  | 7,998.42            | 9,582.00            | 7,763.68            | 29.73           | 47.57       | 89.54                 | 1,084.10                          | 8,425.52   | 8,657.31             | 8,580.10              | 77.21                   | 112.122           |                                                                             |         |                            |  |
| 8,200.00                                  | 8,098.42            | 9,582.00            | 7,763.68            | 30.07           | 47.57       | 89.54                 | 1,084.10                          | 8,425.52   | 8,659.76             | 8,582.23              | 77.53                   | 111.699           |                                                                             |         |                            |  |
| 8,300.00                                  | 8,198.42            | 9,582.00            | 7,763.68            | 30.41           | 47.57       | 89.54                 | 1,084.10                          | 8,425.52   | 8,663.35             | 8,585.52              | 77.83                   | 111.306           |                                                                             |         |                            |  |
| 8,363.62                                  | 8,262.04            | 9,582.00            | 7,763.68            | 30.62           | 47.57       | 89.54                 | 1,084.10                          | 8,425.52   | 8,666.24             | 8,588.22              | 78.02                   | 111.072           |                                                                             |         |                            |  |
| 8,400.00                                  | 8,298.40            | 9,582.00            | 7,763.68            | 30.75           | 47.57       | -0.12                 | 1,084.10                          | 8,425.52   | 8,666.95             | 8,588.82              | 78.13                   | 110.933           |                                                                             |         |                            |  |
| 8,450.00                                  | 8,348.10            | 9,582.00            | 7,763.68            | 30.91           | 47.57       | -0.12                 | 1,084.10                          | 8,425.52   | 8,664.40             | 8,586.14              | 78.26                   | 110.710           |                                                                             |         |                            |  |
| 8,500.00                                  | 8,397.14            | 9,582.00            | 7,763.68            | 31.07           | 47.57       | -0.12                 | 1,084.10                          | 8,425.52   | 8,657.80             | 8,579.40              | 78.39                   | 110.443           |                                                                             |         |                            |  |
| 8,550.00                                  | 8,445.15            | 9,582.00            | 7,763.68            | 31.23           | 47.57       | -0.13                 | 1,084.10                          | 8,425.52   | 8,647.18             | 8,568.66              | 78.51                   | 110.137           |                                                                             |         |                            |  |
| 8,600.00                                  | 8,491.77            | 9,583.13            | 7,763.71            | 31.38           | 47.58       | -0.12                 | 1,082.97                          | 8,425.53   | 8,632.61             | 8,553.96              | 78.64                   | 109.768           |                                                                             |         |                            |  |
| 8,650.00                                  | 8,536.65            | 9,584.54            | 7,763.75            | 31.52           | 47.61       | -0.12                 | 1,081.55                          | 8,425.55   | 8,614.18             | 8,535.41              | 78.77                   | 109.359           |                                                                             |         |                            |  |
| 8,700.00                                  | 8,579.43            | 9,585.92            | 7,763.78            | 31.66           | 47.63       | -0.11                 | 1,080.18                          | 8,425.56   | 8,592.01             | 8,513.13              | 78.88                   | 108.920           |                                                                             |         |                            |  |
| 8,750.00                                  | 8,619.80            | 9,587.23            | 7,763.81            | 31.80           | 47.65       | -0.11                 | 1,078.87                          | 8,425.57   | 8,566.24             | 8,487.25              | 78.99                   | 108.453           |                                                                             |         |                            |  |
| 8,800.00                                  | 8,657.44            | 9,588.48            | 7,763.85            | 31.93           | 47.67       | -0.10                 | 1,077.62                          | 8,425.59   | 8,537.03             | 8,457.95              | 79.08                   | 107.960           |                                                                             |         |                            |  |
| 8,850.00                                  | 8,692.08            | 9,589.66            | 7,763.88            | 32.06           | 47.69       | -0.10                 | 1,076.44                          | 8,425.60   | 8,504.57             | 8,425.42              | 79.15                   | 107.445           |                                                                             |         |                            |  |
| 8,900.00                                  | 8,723.44            | 9,590.75            | 7,763.90            | 32.19           | 47.71       | -0.10                 | 1,075.35                          | 8,425.61   | 8,469.07             | 8,389.85              | 79.22                   | 106.910           |                                                                             |         |                            |  |
| 8,950.00                                  | 8,751.29            | 9,591.75            | 7,763.93            | 32.34           | 47.73       | -0.10                 | 1,074.36                          | 8,425.62   | 8,430.77             | 8,351.50              | 79.27                   | 106.357           |                                                                             |         |                            |  |
| 9,000.00                                  | 8,775.42            | 9,592.64            | 7,763.95            | 32.50           | 47.74       | -0.10                 | 1,073.46                          | 8,425.63   | 8,389.92             | 8,310.61              | 79.31                   | 105.788           |                                                                             |         |                            |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                             |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 81-GYRO-NS, 7138-MWD+IGRF |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.00 ft |
| Reference                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,050.00                                  | 8,795.64            | 9,593.43            | 7,763.97            | 32.67           | 47.75       | -0.10                 | 1,072.67                          | 8,425.63   | 8,346.79             | 8,267.45              | 79.34                   | 105.205           |                    |         |
| 9,100.00                                  | 8,811.80            | 9,594.11            | 7,763.99            | 32.87           | 47.76       | -0.11                 | 1,071.99                          | 8,425.64   | 8,301.69             | 8,222.33              | 79.36                   | 104.610           |                    |         |
| 9,150.00                                  | 8,823.77            | 9,594.67            | 7,764.01            | 33.10           | 47.77       | -0.13                 | 1,071.43                          | 8,425.65   | 8,254.92             | 8,175.55              | 79.37                   | 104.005           |                    |         |
| 9,200.00                                  | 8,831.47            | 9,595.11            | 7,764.02            | 33.34           | 47.78       | -0.16                 | 1,070.99                          | 8,425.65   | 8,206.82             | 8,127.44              | 79.38                   | 103.392           |                    |         |
| 9,250.00                                  | 8,834.84            | 9,595.42            | 7,764.02            | 33.60           | 47.79       | -0.25                 | 1,070.68                          | 8,425.65   | 8,157.73             | 8,078.35              | 79.38                   | 102.772           |                    |         |
| 9,263.62                                  | 8,835.00            | 9,595.48            | 7,764.03            | 33.67           | 47.79       | -0.29                 | 1,070.62                          | 8,425.65   | 8,144.23             | 8,064.85              | 79.38                   | 102.601           |                    |         |
| 9,300.00                                  | 8,835.00            | 9,595.64            | 7,764.03            | 33.88           | 47.79       | -0.28                 | 1,070.46                          | 8,425.66   | 8,108.13             | 8,028.75              | 79.38                   | 102.149           |                    |         |
| 9,400.00                                  | 8,835.00            | 9,596.07            | 7,764.04            | 34.53           | 47.80       | -0.26                 | 1,070.03                          | 8,425.66   | 8,008.90             | 7,929.53              | 79.37                   | 100.908           |                    |         |
| 9,500.00                                  | 8,835.00            | 9,596.50            | 7,764.05            | 35.30           | 47.80       | -0.23                 | 1,069.61                          | 8,425.66   | 7,909.68             | 7,830.32              | 79.36                   | 99.665            |                    |         |
| 9,600.00                                  | 8,835.00            | 9,596.92            | 7,764.06            | 36.17           | 47.81       | -0.21                 | 1,069.18                          | 8,425.67   | 7,810.49             | 7,731.14              | 79.36                   | 98.422            |                    |         |
| 9,700.00                                  | 8,835.00            | 9,597.35            | 7,764.07            | 37.13           | 47.82       | -0.18                 | 1,068.76                          | 8,425.67   | 7,711.32             | 7,631.97              | 79.35                   | 97.178            |                    |         |
| 9,800.00                                  | 8,835.00            | 9,597.77            | 7,764.08            | 38.18           | 47.82       | -0.16                 | 1,068.33                          | 8,425.68   | 7,612.17             | 7,532.83              | 79.35                   | 95.934            |                    |         |
| 9,900.00                                  | 8,835.00            | 9,598.19            | 7,764.10            | 39.31           | 47.83       | -0.13                 | 1,067.91                          | 8,425.68   | 7,513.05             | 7,433.70              | 79.34                   | 94.689            |                    |         |
| 10,000.00                                 | 8,835.00            | 9,598.61            | 7,764.11            | 40.51           | 47.84       | -0.11                 | 1,067.49                          | 8,425.68   | 7,413.95             | 7,334.60              | 79.34                   | 93.443            |                    |         |
| 10,100.00                                 | 8,835.00            | 9,599.03            | 7,764.12            | 41.78           | 47.85       | -0.09                 | 1,067.07                          | 8,425.69   | 7,314.87             | 7,235.53              | 79.34                   | 92.197            |                    |         |
| 10,200.00                                 | 8,835.00            | 9,599.45            | 7,764.13            | 43.10           | 47.85       | -0.06                 | 1,066.66                          | 8,425.69   | 7,215.82             | 7,136.48              | 79.34                   | 90.951            |                    |         |
| 10,300.00                                 | 8,835.00            | 9,599.87            | 7,764.14            | 44.49           | 47.86       | -0.04                 | 1,066.24                          | 8,425.70   | 7,116.79             | 7,037.45              | 79.34                   | 89.704            |                    |         |
| 10,400.00                                 | 8,835.00            | 9,600.28            | 7,764.15            | 45.92           | 47.87       | -0.01                 | 1,065.82                          | 8,425.70   | 7,017.79             | 6,938.45              | 79.34                   | 88.456            |                    |         |
| 10,500.00                                 | 8,835.00            | 9,600.69            | 7,764.16            | 47.39           | 47.87       | 0.01                  | 1,065.41                          | 8,425.70   | 6,918.82             | 6,839.48              | 79.34                   | 87.209            |                    |         |
| 10,600.00                                 | 8,835.00            | 9,601.11            | 7,764.17            | 48.91           | 47.88       | 0.03                  | 1,065.00                          | 8,425.71   | 6,819.88             | 6,740.54              | 79.34                   | 85.961            |                    |         |
| 10,700.00                                 | 8,835.00            | 9,601.52            | 7,764.18            | 50.47           | 47.89       | 0.06                  | 1,064.59                          | 8,425.71   | 6,720.97             | 6,641.63              | 79.34                   | 84.712            |                    |         |
| 10,800.00                                 | 8,835.00            | 9,601.93            | 7,764.19            | 52.06           | 47.89       | 0.08                  | 1,064.18                          | 8,425.72   | 6,622.10             | 6,542.76              | 79.34                   | 83.464            |                    |         |
| 10,900.00                                 | 8,835.00            | 9,602.33            | 7,764.20            | 53.68           | 47.90       | 0.10                  | 1,063.77                          | 8,425.72   | 6,523.26             | 6,443.91              | 79.34                   | 82.215            |                    |         |
| 11,000.00                                 | 8,835.00            | 9,602.74            | 7,764.21            | 55.32           | 47.91       | 0.13                  | 1,063.36                          | 8,425.72   | 6,424.45             | 6,345.10              | 79.35                   | 80.967            |                    |         |
| 11,100.00                                 | 8,835.00            | 9,603.15            | 7,764.22            | 57.00           | 47.91       | 0.15                  | 1,062.96                          | 8,425.73   | 6,325.68             | 6,246.33              | 79.35                   | 79.718            |                    |         |
| 11,200.00                                 | 8,835.00            | 9,603.55            | 7,764.23            | 58.70           | 47.92       | 0.17                  | 1,062.55                          | 8,425.73   | 6,226.95             | 6,147.60              | 79.36                   | 78.469            |                    |         |
| 11,300.00                                 | 8,835.00            | 9,603.95            | 7,764.24            | 60.41           | 47.93       | 0.20                  | 1,062.15                          | 8,425.74   | 6,128.27             | 6,048.91              | 79.36                   | 77.220            |                    |         |
| 11,400.00                                 | 8,835.00            | 9,604.36            | 7,764.25            | 62.15           | 47.93       | 0.22                  | 1,061.75                          | 8,425.74   | 6,029.62             | 5,950.26              | 79.37                   | 75.971            |                    |         |
| 11,500.00                                 | 8,835.00            | 9,604.76            | 7,764.26            | 63.91           | 47.94       | 0.24                  | 1,061.35                          | 8,425.74   | 5,931.02             | 5,851.65              | 79.37                   | 74.723            |                    |         |
| 11,600.00                                 | 8,835.00            | 9,605.15            | 7,764.27            | 65.69           | 47.95       | 0.27                  | 1,060.95                          | 8,425.75   | 5,832.47             | 5,753.09              | 79.38                   | 73.474            |                    |         |
| 11,700.00                                 | 8,835.00            | 9,605.55            | 7,764.28            | 67.47           | 47.95       | 0.29                  | 1,060.55                          | 8,425.75   | 5,733.97             | 5,654.58              | 79.39                   | 72.226            |                    |         |
| 11,800.00                                 | 8,835.00            | 9,605.95            | 7,764.29            | 69.28           | 47.96       | 0.31                  | 1,060.16                          | 8,425.75   | 5,635.52             | 5,556.12              | 79.40                   | 70.978            |                    |         |
| 11,900.00                                 | 8,835.00            | 9,606.34            | 7,764.30            | 71.09           | 47.97       | 0.33                  | 1,059.76                          | 8,425.76   | 5,537.13             | 5,457.72              | 79.41                   | 69.730            |                    |         |
| 12,000.00                                 | 8,835.00            | 9,606.74            | 7,764.31            | 72.92           | 47.97       | 0.36                  | 1,059.37                          | 8,425.76   | 5,438.80             | 5,359.38              | 79.42                   | 68.483            |                    |         |
| 12,100.00                                 | 8,835.00            | 9,607.13            | 7,764.32            | 74.76           | 47.98       | 0.38                  | 1,058.98                          | 8,425.77   | 5,340.52             | 5,261.09              | 79.43                   | 67.236            |                    |         |
| 12,200.00                                 | 8,835.00            | 9,607.52            | 7,764.33            | 76.61           | 47.98       | 0.40                  | 1,058.58                          | 8,425.77   | 5,242.32             | 5,162.87              | 79.44                   | 65.990            |                    |         |
| 12,300.00                                 | 8,835.00            | 9,607.91            | 7,764.34            | 78.47           | 47.99       | 0.42                  | 1,058.19                          | 8,425.77   | 5,144.18             | 5,064.72              | 79.45                   | 64.744            |                    |         |
| 12,400.00                                 | 8,835.00            | 9,608.30            | 7,764.35            | 80.34           | 48.00       | 0.45                  | 1,057.81                          | 8,425.78   | 5,046.11             | 4,966.65              | 79.47                   | 63.498            |                    |         |
| 12,500.00                                 | 8,835.00            | 9,608.69            | 7,764.36            | 82.22           | 48.00       | 0.47                  | 1,057.42                          | 8,425.78   | 4,948.13             | 4,868.64              | 79.48                   | 62.253            |                    |         |
| 12,600.00                                 | 8,835.00            | 9,609.08            | 7,764.37            | 84.11           | 48.01       | 0.49                  | 1,057.03                          | 8,425.78   | 4,850.22             | 4,770.72              | 79.50                   | 61.009            |                    |         |
| 12,700.00                                 | 8,835.00            | 9,609.46            | 7,764.38            | 86.00           | 48.02       | 0.51                  | 1,056.65                          | 8,425.79   | 4,752.40             | 4,672.89              | 79.52                   | 59.766            |                    |         |
| 12,800.00                                 | 8,835.00            | 9,609.85            | 7,764.39            | 87.90           | 48.02       | 0.54                  | 1,056.26                          | 8,425.79   | 4,654.68             | 4,575.14              | 79.54                   | 58.523            |                    |         |
| 12,900.00                                 | 8,835.00            | 9,610.23            | 7,764.40            | 89.81           | 48.03       | 0.56                  | 1,055.88                          | 8,425.80   | 4,557.05             | 4,477.49              | 79.56                   | 57.281            |                    |         |
| 13,000.00                                 | 8,835.00            | 9,610.61            | 7,764.41            | 91.72           | 48.04       | 0.58                  | 1,055.50                          | 8,425.80   | 4,459.53             | 4,379.95              | 79.58                   | 56.040            |                    |         |
| 13,100.00                                 | 8,835.00            | 9,610.99            | 7,764.42            | 93.64           | 48.04       | 0.60                  | 1,055.12                          | 8,425.80   | 4,362.12             | 4,282.52              | 79.60                   | 54.799            |                    |         |
| 13,200.00                                 | 8,835.00            | 9,611.37            | 7,764.43            | 95.56           | 48.05       | 0.62                  | 1,054.74                          | 8,425.81   | 4,264.83             | 4,185.20              | 79.63                   | 53.560            |                    |         |
| 13,300.00                                 | 8,835.00            | 9,611.75            | 7,764.44            | 97.49           | 48.05       | 0.64                  | 1,054.36                          | 8,425.81   | 4,167.67             | 4,088.02              | 79.65                   | 52.322            |                    |         |
| 13,400.00                                 | 8,835.00            | 9,612.12            | 7,764.45            | 99.42           | 48.06       | 0.67                  | 1,053.98                          | 8,425.81   | 4,070.65             | 3,990.96              | 79.68                   | 51.085            |                    |         |
| 13,500.00                                 | 8,835.00            | 9,612.50            | 7,764.46            | 101.36          | 48.07       | 0.69                  | 1,053.61                          | 8,425.82   | 3,973.77             | 3,894.05              | 79.72                   | 49.849            |                    |         |
| 13,600.00                                 | 8,835.00            | 9,612.87            | 7,764.47            | 103.30          | 48.07       | 0.71                  | 1,053.23                          | 8,425.82   | 3,877.05             | 3,797.30              | 79.75                   | 48.615            |                    |         |
| 13,700.00                                 | 8,835.00            | 9,613.25            | 7,764.48            | 105.25          | 48.08       | 0.73                  | 1,052.86                          | 8,425.82   | 3,780.51             | 3,700.72              | 79.79                   | 47.381            |                    |         |
| 13,800.00                                 | 8,835.00            | 9,613.62            | 7,764.49            | 107.20          | 48.08       | 0.75                  | 1,052.49                          | 8,425.83   | 3,684.14             | 3,604.31              | 79.83                   | 46.150            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                             |                |                |                |                 |        |                   |                              |              |                 |                  |                    |                   | Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 8H - Original Hole - Actuals |         | Offset Site Error: 5.00 ft |  |
|-------------------------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------------|--------------|-----------------|------------------|--------------------|-------------------|-----------------------------------------------------------------------------|---------|----------------------------|--|
| Survey Program: 81-GYRO-NS, 7138-MWD+IGRF |                |                |                |                 |        |                   |                              |              |                 |                  |                    |                   | Offset Well Error: 0.00 ft                                                  |         |                            |  |
| Reference                                 |                | Offset         |                | Semi Major Axis |        |                   | Distance                     |              |                 |                  |                    |                   |                                                                             | Warning |                            |  |
| Measured Depth                            | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre +N/-S | Centre +E/-W | Between Centres | Between Ellipses | Minimum Separation | Separation Factor |                                                                             |         |                            |  |
| (ft)                                      | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | (ft)                         | (ft)         | (ft)            | (ft)             | (ft)               |                   |                                                                             |         |                            |  |
| 13,900.00                                 | 8,835.00       | 9,613.99       | 7,764.50       | 109.15          | 48.09  | 0.77              | 1,052.12                     | 8,425.83     | 3,587.98        | 3,508.10         | 79.88              | 44.920            |                                                                             |         |                            |  |
| 14,000.00                                 | 8,835.00       | 9,614.36       | 7,764.51       | 111.10          | 48.10  | 0.79              | 1,051.75                     | 8,425.84     | 3,492.03        | 3,412.11         | 79.93              | 43.691            |                                                                             |         |                            |  |
| 14,100.00                                 | 8,835.00       | 9,614.73       | 7,764.52       | 113.06          | 48.10  | 0.82              | 1,051.38                     | 8,425.84     | 3,396.32        | 3,316.34         | 79.98              | 42.464            |                                                                             |         |                            |  |
| 14,200.00                                 | 8,835.00       | 9,615.10       | 7,764.53       | 115.03          | 48.11  | 0.84              | 1,051.01                     | 8,425.84     | 3,300.86        | 3,220.82         | 80.04              | 41.239            |                                                                             |         |                            |  |
| 14,300.00                                 | 8,835.00       | 9,615.46       | 7,764.54       | 116.99          | 48.12  | 0.86              | 1,050.65                     | 8,425.85     | 3,205.67        | 3,125.57         | 80.11              | 40.017            |                                                                             |         |                            |  |
| 14,400.00                                 | 8,835.00       | 9,615.83       | 7,764.55       | 118.96          | 48.12  | 0.88              | 1,050.28                     | 8,425.85     | 3,110.79        | 3,030.61         | 80.18              | 38.797            |                                                                             |         |                            |  |
| 14,500.00                                 | 8,835.00       | 9,616.19       | 7,764.56       | 120.93          | 48.13  | 0.90              | 1,049.92                     | 8,425.85     | 3,016.24        | 2,935.98         | 80.26              | 37.579            |                                                                             |         |                            |  |
| 14,600.00                                 | 8,835.00       | 9,616.56       | 7,764.57       | 122.90          | 48.13  | 0.92              | 1,049.55                     | 8,425.86     | 2,922.05        | 2,841.70         | 80.36              | 36.364            |                                                                             |         |                            |  |
| 14,700.00                                 | 8,835.00       | 9,616.92       | 7,764.58       | 124.88          | 48.14  | 0.94              | 1,049.19                     | 8,425.86     | 2,828.27        | 2,747.81         | 80.46              | 35.152            |                                                                             |         |                            |  |
| 14,800.00                                 | 8,835.00       | 9,617.28       | 7,764.59       | 126.86          | 48.14  | 0.96              | 1,048.83                     | 8,425.86     | 2,734.92        | 2,654.35         | 80.57              | 33.944            |                                                                             |         |                            |  |
| 14,900.00                                 | 8,835.00       | 9,617.64       | 7,764.59       | 128.84          | 48.15  | 0.98              | 1,048.47                     | 8,425.87     | 2,642.06        | 2,561.36         | 80.70              | 32.740            |                                                                             |         |                            |  |
| 15,000.00                                 | 8,835.00       | 9,618.00       | 7,764.60       | 130.82          | 48.16  | 1.00              | 1,048.11                     | 8,425.87     | 2,549.73        | 2,468.89         | 80.84              | 31.540            |                                                                             |         |                            |  |
| 15,100.00                                 | 8,835.00       | 9,618.36       | 7,764.61       | 132.80          | 48.16  | 1.02              | 1,047.75                     | 8,425.87     | 2,458.01        | 2,377.01         | 81.00              | 30.346            |                                                                             |         |                            |  |
| 15,200.00                                 | 8,835.00       | 9,618.71       | 7,764.62       | 134.79          | 48.17  | 1.04              | 1,047.40                     | 8,425.88     | 2,366.96        | 2,285.78         | 81.18              | 29.158            |                                                                             |         |                            |  |
| 15,300.00                                 | 8,835.00       | 9,619.07       | 7,764.63       | 136.78          | 48.17  | 1.07              | 1,047.04                     | 8,425.88     | 2,276.66        | 2,195.28         | 81.38              | 27.977            |                                                                             |         |                            |  |
| 15,400.00                                 | 8,835.00       | 9,619.42       | 7,764.64       | 138.76          | 48.18  | 1.09              | 1,046.69                     | 8,425.88     | 2,187.21        | 2,105.61         | 81.60              | 26.804            |                                                                             |         |                            |  |
| 15,500.00                                 | 8,835.00       | 9,619.78       | 7,764.65       | 140.76          | 48.19  | 1.11              | 1,046.33                     | 8,425.89     | 2,098.70        | 2,016.85         | 81.85              | 25.641            |                                                                             |         |                            |  |
| 15,600.00                                 | 8,835.00       | 9,620.13       | 7,764.66       | 142.75          | 48.19  | 1.13              | 1,045.98                     | 8,425.89     | 2,011.28        | 1,929.15         | 82.13              | 24.490            |                                                                             |         |                            |  |
| 15,700.00                                 | 8,835.00       | 9,620.48       | 7,764.67       | 144.74          | 48.20  | 1.15              | 1,045.63                     | 8,425.89     | 1,925.08        | 1,842.64         | 82.44              | 23.353            |                                                                             |         |                            |  |
| 15,800.00                                 | 8,835.00       | 9,620.83       | 7,764.68       | 146.74          | 48.20  | 1.17              | 1,045.28                     | 8,425.90     | 1,840.27        | 1,757.50         | 82.78              | 22.232            |                                                                             |         |                            |  |
| 15,900.00                                 | 8,835.00       | 9,621.18       | 7,764.69       | 148.73          | 48.21  | 1.19              | 1,044.93                     | 8,425.90     | 1,757.07        | 1,673.92         | 83.15              | 21.132            |                                                                             |         |                            |  |
| 16,000.00                                 | 8,835.00       | 9,621.53       | 7,764.69       | 150.73          | 48.21  | 1.21              | 1,044.58                     | 8,425.90     | 1,675.70        | 1,592.15         | 83.55              | 20.056            |                                                                             |         |                            |  |
| 16,100.00                                 | 8,835.00       | 9,621.88       | 7,764.70       | 152.73          | 48.22  | 1.23              | 1,044.24                     | 8,425.91     | 1,596.45        | 1,512.46         | 83.99              | 19.009            |                                                                             |         |                            |  |
| 16,200.00                                 | 8,835.00       | 9,622.22       | 7,764.71       | 154.73          | 48.23  | 1.25              | 1,043.89                     | 8,425.91     | 1,519.65        | 1,435.21         | 84.44              | 17.997            |                                                                             |         |                            |  |
| 16,300.00                                 | 8,835.00       | 9,622.57       | 7,764.72       | 156.73          | 48.23  | 1.27              | 1,043.55                     | 8,425.91     | 1,445.69        | 1,360.78         | 84.91              | 17.027            |                                                                             |         |                            |  |
| 16,400.00                                 | 8,835.00       | 9,622.91       | 7,764.73       | 158.74          | 48.24  | 1.29              | 1,043.20                     | 8,425.92     | 1,375.02        | 1,289.65         | 85.37              | 16.107            |                                                                             |         |                            |  |
| 16,500.00                                 | 8,835.00       | 9,623.25       | 7,764.74       | 160.74          | 48.24  | 1.31              | 1,042.86                     | 8,425.92     | 1,308.19        | 1,222.39         | 85.81              | 15.246            |                                                                             |         |                            |  |
| 16,600.00                                 | 8,835.00       | 9,623.59       | 7,764.75       | 162.74          | 48.25  | 1.33              | 1,042.52                     | 8,425.92     | 1,245.81        | 1,159.63         | 86.18              | 14.456            |                                                                             |         |                            |  |
| 16,700.00                                 | 8,835.00       | 9,623.94       | 7,764.76       | 164.75          | 48.25  | 1.34              | 1,042.18                     | 8,425.93     | 1,188.58        | 1,102.12         | 86.47              | 13.746            |                                                                             |         |                            |  |
| 16,800.00                                 | 8,835.00       | 9,624.28       | 7,764.76       | 166.76          | 48.26  | 1.36              | 1,041.84                     | 8,425.93     | 1,137.28        | 1,050.66         | 86.63              | 13.129            |                                                                             |         |                            |  |
| 16,900.00                                 | 8,835.00       | 9,624.61       | 7,764.77       | 168.77          | 48.27  | 1.38              | 1,041.50                     | 8,425.93     | 1,092.75        | 1,006.11         | 86.63              | 12.613            |                                                                             |         |                            |  |
| 17,000.00                                 | 8,835.00       | 9,624.95       | 7,764.78       | 170.77          | 48.27  | 1.40              | 1,041.16                     | 8,425.93     | 1,055.83        | 969.32           | 86.51              | 12.204            |                                                                             |         |                            |  |
| 17,100.00                                 | 8,835.00       | 9,625.29       | 7,764.79       | 172.78          | 48.28  | 1.42              | 1,040.82                     | 8,425.94     | 1,027.35        | 941.01           | 86.34              | 11.898            |                                                                             |         |                            |  |
| 17,200.00                                 | 8,835.00       | 9,625.63       | 7,764.80       | 174.79          | 48.28  | 1.44              | 1,040.49                     | 8,425.94     | 1,008.03        | 921.71           | 86.33              | 11.677            |                                                                             |         |                            |  |
| 17,300.00                                 | 8,835.00       | 9,625.96       | 7,764.81       | 176.81          | 48.29  | 1.46              | 1,040.15                     | 8,425.94     | 998.40          | 911.67           | 86.74              | 11.511            |                                                                             |         |                            |  |
| 17,346.61                                 | 8,835.00       | 9,626.12       | 7,764.81       | 177.74          | 48.29  | 1.47              | 1,040.00                     | 8,425.95     | 997.32          | 910.17           | 87.14              | 11.445 CC, ES     |                                                                             |         |                            |  |
| 17,400.00                                 | 8,835.00       | 9,626.29       | 7,764.82       | 178.82          | 48.29  | 1.48              | 1,039.82                     | 8,425.95     | 998.74          | 910.96           | 87.79              | 11.377            |                                                                             |         |                            |  |
| 17,500.00                                 | 8,835.00       | 9,626.63       | 7,764.82       | 180.83          | 48.30  | 1.50              | 1,039.49                     | 8,425.95     | 1,009.04        | 919.61           | 89.43              | 11.282            |                                                                             |         |                            |  |
| 17,600.00                                 | 8,835.00       | 9,626.96       | 7,764.83       | 182.84          | 48.30  | 1.52              | 1,039.16                     | 8,425.95     | 1,029.00        | 937.62           | 91.39              | 11.260 SF         |                                                                             |         |                            |  |
| 17,700.00                                 | 8,835.00       | 9,627.29       | 7,764.84       | 184.86          | 48.31  | 1.54              | 1,038.82                     | 8,425.96     | 1,058.08        | 964.76           | 93.31              | 11.339            |                                                                             |         |                            |  |
| 17,800.00                                 | 8,835.00       | 9,627.62       | 7,764.85       | 186.87          | 48.31  | 1.56              | 1,038.49                     | 8,425.96     | 1,095.54        | 1,000.54         | 95.00              | 11.532            |                                                                             |         |                            |  |
| 17,900.00                                 | 8,835.00       | 9,627.95       | 7,764.86       | 188.89          | 48.32  | 1.58              | 1,038.17                     | 8,425.96     | 1,140.56        | 1,044.22         | 96.34              | 11.839            |                                                                             |         |                            |  |
| 18,000.00                                 | 8,835.00       | 9,628.28       | 7,764.87       | 190.91          | 48.33  | 1.59              | 1,037.84                     | 8,425.97     | 1,192.29        | 1,094.96         | 97.33              | 12.250            |                                                                             |         |                            |  |
| 18,100.00                                 | 8,835.00       | 9,628.60       | 7,764.88       | 192.92          | 48.33  | 1.61              | 1,037.51                     | 8,425.97     | 1,249.89        | 1,151.90         | 97.99              | 12.755            |                                                                             |         |                            |  |
| 18,200.00                                 | 8,835.00       | 9,628.93       | 7,764.88       | 194.94          | 48.34  | 1.63              | 1,037.18                     | 8,425.97     | 1,312.60        | 1,214.20         | 98.39              | 13.340            |                                                                             |         |                            |  |
| 18,300.00                                 | 8,835.00       | 9,629.26       | 7,764.89       | 196.96          | 48.34  | 1.65              | 1,036.86                     | 8,425.97     | 1,379.71        | 1,281.12         | 98.58              | 13.996            |                                                                             |         |                            |  |
| 18,400.00                                 | 8,835.00       | 9,629.58       | 7,764.90       | 198.98          | 48.35  | 1.67              | 1,036.53                     | 8,425.98     | 1,450.61        | 1,352.00         | 98.61              | 14.711            |                                                                             |         |                            |  |
| 18,500.00                                 | 8,835.00       | 9,629.90       | 7,764.91       | 201.00          | 48.35  | 1.69              | 1,036.21                     | 8,425.98     | 1,524.78        | 1,426.25         | 98.52              | 15.477            |                                                                             |         |                            |  |
| 18,600.00                                 | 8,835.00       | 9,630.23       | 7,764.92       | 203.02          | 48.36  | 1.71              | 1,035.89                     | 8,425.98     | 1,601.75        | 1,503.41         | 98.35              | 16.287            |                                                                             |         |                            |  |
| 18,700.00                                 | 8,835.00       | 9,630.55       | 7,764.93       | 205.04          | 48.36  | 1.72              | 1,035.57                     | 8,425.99     | 1,681.16        | 1,583.04         | 98.12              | 17.134            |                                                                             |         |                            |  |
| 18,800.00                                 | 8,835.00       | 9,630.87       | 7,764.93       | 207.06          | 48.37  | 1.74              | 1,035.25                     | 8,425.99     | 1,762.66        | 1,664.80         | 97.86              | 18.012            |                                                                             |         |                            |  |
| 18,900.00                                 | 8,835.00       | 9,631.19       | 7,764.94       | 209.08          | 48.37  | 1.76              | 1,034.93                     | 8,425.99     | 1,845.98        | 1,748.40         | 97.58              | 18.918            |                                                                             |         |                            |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 8H - Original Hole - Actuals |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 5.00 ft |
|--------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|---------|
| Survey Program: 81-GYRO-NS, 7138-MWD+IGRF                                                        |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 0.00 ft |
| Reference                                                                                        |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                           | Warning |
| Measured Depth<br>(ft)                                                                           | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |         |
| 19,000.00                                                                                        | 8,835.00               | 9,631.51               | 7,764.95               | 211.10            | 48.38          | 1.78                        | 1,034.61                                | 8,426.00      | 1,930.89                   | 1,833.60                    | 97.29                         | 19.847                    |         |
| 19,100.00                                                                                        | 8,835.00               | 9,631.82               | 7,764.96               | 213.12            | 48.38          | 1.80                        | 1,034.29                                | 8,426.00      | 2,017.17                   | 1,920.18                    | 97.00                         | 20.796                    |         |
| 19,200.00                                                                                        | 8,835.00               | 9,632.14               | 7,764.97               | 215.15            | 48.39          | 1.82                        | 1,033.97                                | 8,426.00      | 2,104.68                   | 2,007.97                    | 96.71                         | 21.762                    |         |
| 19,308.27                                                                                        | 8,835.00               | 9,632.48               | 7,764.98               | 217.34            | 48.39          | 1.84                        | 1,033.63                                | 8,426.00      | 2,200.62                   | 2,104.20                    | 96.41                         | 22.825                    |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 4452-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                                          | 0.00                | 0.00                | 0.00                | 0.50            | 5.02        | 65.66                 | 3,104.84                          | 6,862.82   | 7,532.72             |                       |                         |                   |                    |         |
| 100.00                                        | 100.00              | 26.32               | 26.32               | 0.52            | 5.03        | 65.66                 | 3,104.87                          | 6,862.84   | 7,532.53             | 7,526.98              | 5.54                    | 1,358.969         |                    |         |
| 200.00                                        | 200.00              | 100.00              | 100.00              | 0.70            | 5.03        | 65.65                 | 3,105.30                          | 6,863.03   | 7,532.97             | 7,527.25              | 5.73                    | 1,314.928         |                    |         |
| 300.00                                        | 300.00              | 213.72              | 213.71              | 0.99            | 5.05        | 65.65                 | 3,106.12                          | 6,863.35   | 7,533.55             | 7,527.51              | 6.04                    | 1,247.224         |                    |         |
| 400.00                                        | 400.00              | 278.77              | 278.76              | 1.31            | 5.08        | 65.65                 | 3,106.84                          | 6,863.51   | 7,534.19             | 7,527.80              | 6.39                    | 1,178.854         |                    |         |
| 500.00                                        | 500.00              | 392.99              | 392.96              | 1.65            | 5.16        | 65.63                 | 3,108.72                          | 6,863.67   | 7,535.01             | 7,528.21              | 6.80                    | 1,107.456         |                    |         |
| 600.00                                        | 600.00              | 507.17              | 507.13              | 1.99            | 5.26        | 65.62                 | 3,110.31                          | 6,863.62   | 7,535.55             | 7,528.30              | 7.25                    | 1,038.888         |                    |         |
| 700.00                                        | 700.00              | 576.27              | 576.23              | 2.34            | 5.34        | 65.62                 | 3,111.23                          | 6,863.72   | 7,536.22             | 7,528.55              | 7.68                    | 981.390           |                    |         |
| 800.00                                        | 800.00              | 675.80              | 675.74              | 2.69            | 5.47        | 65.60                 | 3,112.95                          | 6,863.96   | 7,537.15             | 7,528.99              | 8.16                    | 923.792           |                    |         |
| 900.00                                        | 900.00              | 788.20              | 788.12              | 3.04            | 5.64        | 65.59                 | 3,115.06                          | 6,863.97   | 7,537.94             | 7,529.26              | 8.68                    | 868.433           |                    |         |
| 1,000.00                                      | 1,000.00            | 858.90              | 858.82              | 3.40            | 5.75        | 65.58                 | 3,116.22                          | 6,864.11   | 7,538.81             | 7,529.65              | 9.15                    | 823.845           |                    |         |
| 1,100.00                                      | 1,100.00            | 1,100.00            | 975.00              | 3.75            | 6.21        | 65.57                 | 3,118.50                          | 6,864.35   | 7,539.81             | 7,529.85              | 9.96                    | 756.712           |                    |         |
| 1,200.00                                      | 1,200.00            | 1,193.56            | 1,193.41            | 4.11            | 6.41        | 65.54                 | 3,122.09                          | 6,862.56   | 7,539.56             | 7,529.04              | 10.52                   | 716.874           |                    |         |
| 1,300.00                                      | 1,300.00            | 1,315.79            | 1,315.61            | 4.46            | 6.68        | 65.52                 | 3,123.48                          | 6,860.74   | 7,538.67             | 7,527.52              | 11.15                   | 676.318           |                    |         |
| 1,400.00                                      | 1,400.00            | 1,400.83            | 1,400.65            | 4.82            | 6.88        | 65.51                 | 3,124.11                          | 6,859.63   | 7,537.78             | 7,526.08              | 11.70                   | 644.140           |                    |         |
| 1,500.00                                      | 1,500.00            | 1,526.30            | 1,526.10            | 5.18            | 7.19        | 65.50                 | 3,125.20                          | 6,857.78   | 7,536.79             | 7,524.42              | 12.36                   | 609.531           |                    |         |
| 1,600.00                                      | 1,600.00            | 1,627.12            | 1,626.90            | 5.53            | 7.45        | 65.49                 | 3,126.42                          | 6,855.94   | 7,535.64             | 7,522.66              | 12.98                   | 580.615           |                    |         |
| 1,700.00                                      | 1,700.00            | 1,700.00            | 1,764.64            | 5.89            | 7.64        | 65.47                 | 3,127.99                          | 6,853.19   | 7,534.31             | 7,520.78              | 13.53                   | 557.030           |                    |         |
| 1,800.00                                      | 1,800.00            | 8,019.91            | 4,987.55            | 6.25            | 50.60       | 91.38                 | -163.37                           | 6,790.81   | 7,528.65             | 7,475.85              | 52.80                   | 142.600           |                    |         |
| 1,900.00                                      | 1,900.00            | 8,019.61            | 4,987.56            | 6.61            | 50.60       | 91.38                 | -163.06                           | 6,790.81   | 7,486.07             | 7,432.75              | 53.33                   | 140.384           |                    |         |
| 2,000.00                                      | 2,000.00            | 8,019.30            | 4,987.56            | 6.96            | 50.60       | 91.37                 | -162.76                           | 6,790.82   | 7,444.60             | 7,390.74              | 53.86                   | 138.229           |                    |         |
| 2,100.00                                      | 2,099.99            | 8,018.45            | 4,987.56            | 7.32            | 50.58       | 104.57                | -161.91                           | 6,790.84   | 7,404.44             | 7,350.06              | 54.38                   | 136.157           |                    |         |
| 2,200.00                                      | 2,199.96            | 8,016.52            | 4,987.57            | 7.68            | 50.56       | 104.96                | -159.97                           | 6,790.88   | 7,365.82             | 7,310.93              | 54.89                   | 134.188           |                    |         |
| 2,300.00                                      | 2,299.86            | 8,013.48            | 4,987.59            | 8.04            | 50.52       | 105.32                | -156.94                           | 6,790.95   | 7,328.78             | 7,273.39              | 55.39                   | 132.317           |                    |         |
| 2,400.00                                      | 2,399.68            | 8,009.34            | 4,987.61            | 8.39            | 50.46       | 105.65                | -152.80                           | 6,791.04   | 7,293.36             | 7,237.49              | 55.87                   | 130.544           |                    |         |
| 2,500.00                                      | 2,499.37            | 8,004.09            | 4,987.63            | 8.75            | 50.39       | 105.95                | -147.55                           | 6,791.16   | 7,259.58             | 7,203.24              | 56.33                   | 128.867           |                    |         |
| 2,600.00                                      | 2,598.90            | 7,997.73            | 4,987.67            | 9.11            | 50.30       | 106.22                | -141.19                           | 6,791.31   | 7,227.47             | 7,170.69              | 56.78                   | 127.283           |                    |         |
| 2,700.00                                      | 2,698.26            | 7,995.18            | 4,987.68            | 9.46            | 50.26       | 106.51                | -138.64                           | 6,791.36   | 7,197.06             | 7,139.78              | 57.28                   | 125.650           |                    |         |
| 2,800.00                                      | 2,797.40            | 7,978.44            | 4,987.78            | 9.82            | 50.04       | 106.66                | -121.91                           | 6,791.77   | 7,168.38             | 7,110.79              | 57.59                   | 124.480           |                    |         |
| 2,900.00                                      | 2,896.30            | 7,959.52            | 4,987.90            | 10.18           | 49.78       | 106.77                | -102.99                           | 6,792.21   | 7,141.43             | 7,083.57              | 57.86                   | 123.420           |                    |         |
| 3,000.00                                      | 2,994.93            | 7,938.41            | 4,988.04            | 10.54           | 49.49       | 106.85                | -81.90                            | 6,792.69   | 7,116.23             | 7,058.13              | 58.11                   | 122.470           |                    |         |
| 3,100.00                                      | 3,093.26            | 7,915.12            | 4,988.20            | 10.90           | 49.17       | 106.89                | -58.61                            | 6,793.21   | 7,092.79             | 7,034.48              | 58.32                   | 121.628           |                    |         |
| 3,195.07                                      | 3,186.42            | 7,890.94            | 4,988.38            | 11.24           | 48.84       | 106.89                | -34.43                            | 6,793.72   | 7,072.14             | 7,013.66              | 58.48                   | 120.926           |                    |         |
| 3,200.00                                      | 3,191.25            | 7,889.73            | 4,988.38            | 11.26           | 48.82       | 106.88                | -33.22                            | 6,793.74   | 7,071.11             | 7,012.62              | 58.49                   | 120.890           |                    |         |
| 3,300.00                                      | 3,289.08            | 7,870.14            | 4,988.53            | 11.62           | 48.55       | 106.73                | -13.64                            | 6,794.15   | 7,050.95             | 6,992.21              | 58.74                   | 120.032           |                    |         |
| 3,400.00                                      | 3,386.91            | 7,850.56            | 4,988.67            | 11.98           | 48.29       | 106.57                | 5.93                              | 6,794.56   | 7,032.09             | 6,973.10              | 58.99                   | 119.212           |                    |         |
| 3,500.00                                      | 3,484.74            | 7,830.98            | 4,988.81            | 12.35           | 48.02       | 106.41                | 25.51                             | 6,794.98   | 7,014.55             | 6,955.32              | 59.23                   | 118.432           |                    |         |
| 3,600.00                                      | 3,582.58            | 7,800.00            | 4,989.36            | 12.72           | 47.66       | 105.80                | 100.17                            | 6,796.27   | 6,998.24             | 6,976.97              | 59.48                   | 117.518           |                    |         |
| 3,700.00                                      | 3,680.41            | 7,672.84            | 4,989.92            | 13.09           | 45.86       | 105.13                | 183.63                            | 6,797.18   | 6,983.26             | 6,925.16              | 58.10                   | 120.197           |                    |         |
| 3,800.00                                      | 3,778.24            | 7,646.17            | 4,989.96            | 13.46           | 45.50       | 104.91                | 210.30                            | 6,797.31   | 6,969.36             | 6,911.13              | 58.22                   | 119.702           |                    |         |
| 3,900.00                                      | 3,876.08            | 7,620.52            | 4,989.89            | 13.83           | 45.15       | 104.70                | 235.95                            | 6,797.44   | 6,956.79             | 6,898.43              | 58.35                   | 119.217           |                    |         |
| 4,000.00                                      | 3,973.91            | 7,597.69            | 4,989.74            | 14.21           | 44.84       | 104.52                | 258.77                            | 6,797.55   | 6,945.57             | 6,887.05              | 58.52                   | 118.695           |                    |         |
| 4,100.00                                      | 4,071.74            | 7,579.59            | 4,989.62            | 14.58           | 44.60       | 104.37                | 276.88                            | 6,797.63   | 6,935.72             | 6,876.98              | 58.74                   | 118.083           |                    |         |
| 4,200.00                                      | 4,169.57            | 7,561.35            | 4,989.51            | 14.96           | 44.35       | 104.22                | 295.11                            | 6,797.72   | 6,927.24             | 6,868.30              | 58.95                   | 117.518           |                    |         |
| 4,300.00                                      | 4,267.41            | 7,542.99            | 4,989.41            | 15.33           | 44.10       | 104.07                | 313.47                            | 6,797.81   | 6,920.15             | 6,861.01              | 59.15                   | 117.000           |                    |         |
| 4,400.00                                      | 4,365.24            | 7,524.50            | 4,989.33            | 15.71           | 43.85       | 103.92                | 331.96                            | 6,797.91   | 6,914.45             | 6,855.11              | 59.34                   | 116.527           |                    |         |
| 4,500.00                                      | 4,463.07            | 7,508.00            | 4,989.26            | 16.09           | 43.62       | 103.79                | 348.46                            | 6,797.99   | 6,910.14             | 6,850.59              | 59.55                   | 116.045           |                    |         |
| 4,600.00                                      | 4,560.90            | 7,508.00            | 4,989.26            | 16.47           | 43.62       | 103.79                | 348.46                            | 6,797.99   | 6,907.25             | 6,847.27              | 59.97                   | 115.176           |                    |         |
| 4,700.00                                      | 4,658.74            | 7,483.10            | 4,989.18            | 16.85           | 43.29       | 103.58                | 373.37                            | 6,798.15   | 6,905.73             | 6,845.68              | 60.05                   | 114.996           |                    |         |
| 4,755.88                                      | 4,713.41            | 7,476.49            | 4,989.16            | 17.06           | 43.20       | 103.53                | 379.97                            | 6,798.21   | 6,905.51             | 6,845.32              | 60.19                   | 114.725           |                    |         |
| 4,800.00                                      | 4,756.57            | 7,471.27            | 4,989.14            | 17.23           | 43.13       | 103.49                | 385.19                            | 6,798.25   | 6,905.64             | 6,845.34              | 60.30                   | 114.522           |                    |         |
| 4,900.00                                      | 4,854.40            | 7,459.41            | 4,989.11            | 17.61           | 42.97       | 103.39                | 397.05                            | 6,798.36   | 6,906.98             | 6,846.44              | 60.54                   | 114.093           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 4452-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,000.00                                      | 4,952.23            | 7,447.53            | 4,989.09            | 17.99           | 42.81       | 103.30                | 408.94                            | 6,798.49   | 6,909.72             | 6,848.95              | 60.77                   | 113.709           |                    |         |
| 5,100.00                                      | 5,050.07            | 7,435.61            | 4,989.06            | 18.37           | 42.65       | 103.20                | 420.85                            | 6,798.63   | 6,913.87             | 6,852.89              | 60.99                   | 113.369           |                    |         |
| 5,200.00                                      | 5,147.90            | 7,420.00            | 4,989.04            | 18.75           | 16.22       | 103.07                | 437.04                            | 6,798.85   | 6,919.45             | 6,887.56              | 31.89                   | 217.009           |                    |         |
| 5,300.00                                      | 5,245.73            | 7,410.13            | 4,989.02            | 19.14           | 42.30       | 102.99                | 446.33                            | 6,798.97   | 6,926.40             | 6,865.03              | 61.37                   | 112.858           |                    |         |
| 5,400.00                                      | 5,343.56            | 7,383.79            | 4,988.99            | 19.52           | 41.95       | 102.78                | 472.67                            | 6,799.34   | 6,934.75             | 6,873.38              | 61.37                   | 112.996           |                    |         |
| 5,500.00                                      | 5,441.40            | 7,357.52            | 4,988.94            | 19.90           | 41.60       | 102.56                | 498.93                            | 6,799.68   | 6,944.45             | 6,883.08              | 61.36                   | 113.170           |                    |         |
| 5,600.00                                      | 5,539.23            | 7,331.34            | 4,988.88            | 20.29           | 41.25       | 102.35                | 525.12                            | 6,799.99   | 6,955.49             | 6,894.15              | 61.35                   | 113.382           |                    |         |
| 5,700.00                                      | 5,637.06            | 7,309.43            | 4,988.83            | 20.67           | 40.96       | 102.17                | 547.02                            | 6,800.24   | 6,967.89             | 6,906.51              | 61.38                   | 113.527           |                    |         |
| 5,800.00                                      | 5,734.90            | 7,291.19            | 4,988.81            | 21.05           | 40.71       | 102.02                | 565.26                            | 6,800.45   | 6,981.63             | 6,920.19              | 61.45                   | 113.620           |                    |         |
| 5,900.00                                      | 5,832.73            | 7,272.77            | 4,988.80            | 21.44           | 40.47       | 101.87                | 583.68                            | 6,800.67   | 6,996.73             | 6,935.23              | 61.51                   | 113.755           |                    |         |
| 6,000.00                                      | 5,930.56            | 7,254.18            | 4,988.81            | 21.83           | 40.22       | 101.72                | 602.26                            | 6,800.90   | 7,013.17             | 6,951.62              | 61.56                   | 113.933           |                    |         |
| 6,100.00                                      | 6,028.39            | 7,235.59            | 4,988.87            | 22.21           | 24.98       | 101.33                | 650.61                            | 6,801.43   | 7,030.93             | 6,984.22              | 46.70                   | 150.543           |                    |         |
| 6,200.00                                      | 6,126.23            | 7,216.99            | 4,988.91            | 22.60           | 39.49       | 101.28                | 657.06                            | 6,801.57   | 7,050.02             | 6,988.63              | 61.40                   | 114.829           |                    |         |
| 6,300.00                                      | 6,224.06            | 7,198.39            | 4,988.92            | 22.98           | 38.74       | 100.82                | 713.44                            | 6,802.00   | 7,070.32             | 7,009.39              | 60.93                   | 116.047           |                    |         |
| 6,400.00                                      | 6,321.89            | 7,179.79            | 4,988.89            | 23.37           | 38.40       | 100.61                | 739.46                            | 6,802.10   | 7,091.84             | 7,030.99              | 60.85                   | 116.553           |                    |         |
| 6,500.00                                      | 6,419.72            | 7,161.19            | 4,988.86            | 23.76           | 38.17       | 100.47                | 757.26                            | 6,802.17   | 7,114.65             | 7,053.78              | 60.87                   | 116.890           |                    |         |
| 6,600.00                                      | 6,517.56            | 7,142.59            | 4,988.82            | 24.14           | 37.93       | 100.32                | 774.97                            | 6,802.24   | 7,138.73             | 7,077.85              | 60.88                   | 117.261           |                    |         |
| 6,700.00                                      | 6,615.39            | 7,123.99            | 4,988.77            | 24.53           | 37.70       | 100.18                | 792.60                            | 6,802.32   | 7,164.09             | 7,103.20              | 60.88                   | 117.666           |                    |         |
| 6,800.00                                      | 6,713.22            | 7,105.39            | 4,988.72            | 24.92           | 37.47       | 100.04                | 810.16                            | 6,802.40   | 7,190.69             | 7,129.81              | 60.88                   | 118.105           |                    |         |
| 6,900.00                                      | 6,811.05            | 7,086.79            | 4,988.65            | 25.30           | 37.24       | 99.90                 | 827.46                            | 6,802.49   | 7,218.54             | 7,157.66              | 60.88                   | 118.570           |                    |         |
| 7,000.00                                      | 6,908.89            | 7,068.19            | 4,988.59            | 25.69           | 37.02       | 99.76                 | 844.45                            | 6,802.57   | 7,247.61             | 7,186.74              | 60.87                   | 119.060           |                    |         |
| 7,100.00                                      | 7,006.72            | 7,049.59            | 4,988.51            | 26.08           | 36.80       | 99.62                 | 861.35                            | 6,802.67   | 7,277.89             | 7,217.03              | 60.86                   | 119.582           |                    |         |
| 7,200.00                                      | 7,104.55            | 7,030.99            | 4,988.43            | 26.47           | 36.58       | 99.49                 | 878.18                            | 6,802.76   | 7,309.37             | 7,248.53              | 60.84                   | 120.135           |                    |         |
| 7,216.87                                      | 7,121.05            | 7,012.39            | 4,988.41            | 26.53           | 36.54       | 99.46                 | 881.02                            | 6,802.78   | 7,314.80             | 7,253.96              | 60.84                   | 120.231           |                    |         |
| 7,300.00                                      | 7,202.57            | 7,000.00            | 4,988.34            | 26.85           | 36.37       | 99.78                 | 894.20                            | 6,802.86   | 7,341.89             | 7,281.07              | 60.83                   | 120.701           |                    |         |
| 7,400.00                                      | 7,301.06            | 6,988.39            | 4,988.26            | 27.23           | 36.19       | 100.19                | 908.05                            | 6,802.95   | 7,375.18             | 7,314.36              | 60.83                   | 121.251           |                    |         |
| 7,500.00                                      | 7,399.97            | 6,976.79            | 4,988.22            | 27.61           | 36.10       | 100.67                | 914.44                            | 6,802.99   | 7,409.21             | 7,348.30              | 60.91                   | 121.650           |                    |         |
| 7,600.00                                      | 7,499.23            | 6,965.19            | 4,988.22            | 27.98           | 36.10       | 101.22                | 914.44                            | 6,802.99   | 7,443.97             | 7,382.92              | 61.05                   | 121.926           |                    |         |
| 7,700.00                                      | 7,598.77            | 6,953.59            | 4,988.22            | 28.34           | 36.10       | 101.78                | 914.44                            | 6,802.99   | 7,479.43             | 7,418.24              | 61.19                   | 122.238           |                    |         |
| 7,800.00                                      | 7,698.53            | 6,941.99            | 4,988.22            | 28.70           | 36.10       | 102.34                | 914.44                            | 6,802.99   | 7,515.56             | 7,454.25              | 61.31                   | 122.584           |                    |         |
| 7,900.00                                      | 7,798.44            | 6,930.39            | 4,988.22            | 29.05           | 36.10       | 102.92                | 914.44                            | 6,802.99   | 7,552.32             | 7,490.90              | 61.42                   | 122.963           |                    |         |
| 8,000.00                                      | 7,898.42            | 6,918.79            | 4,988.22            | 29.39           | 36.10       | 103.51                | 914.44                            | 6,802.99   | 7,589.68             | 7,528.16              | 61.52                   | 123.373           |                    |         |
| 8,013.58                                      | 7,912.00            | 6,907.19            | 4,988.22            | 29.43           | 36.10       | 90.81                 | 914.44                            | 6,802.99   | 7,594.79             | 7,533.26              | 61.53                   | 123.432           |                    |         |
| 8,100.00                                      | 7,998.42            | 6,895.59            | 4,988.22            | 29.73           | 36.10       | 90.81                 | 914.44                            | 6,802.99   | 7,627.82             | 7,566.21              | 61.61                   | 123.812           |                    |         |
| 8,200.00                                      | 8,098.42            | 6,883.99            | 4,988.22            | 30.07           | 36.10       | 90.81                 | 914.44                            | 6,802.99   | 7,667.06             | 7,605.37              | 61.69                   | 124.277           |                    |         |
| 8,300.00                                      | 8,198.42            | 6,872.39            | 4,988.22            | 30.41           | 36.10       | 90.81                 | 914.44                            | 6,802.99   | 7,707.41             | 7,645.63              | 61.77                   | 124.767           |                    |         |
| 8,363.62                                      | 8,262.04            | 6,860.79            | 4,988.22            | 30.62           | 36.10       | 90.81                 | 914.44                            | 6,802.99   | 7,733.64             | 7,671.81              | 61.82                   | 125.092           |                    |         |
| 8,400.00                                      | 8,298.40            | 6,849.19            | 4,988.22            | 30.75           | 36.10       | 1.12                  | 914.44                            | 6,802.99   | 7,747.77             | 7,685.93              | 61.85                   | 125.276           |                    |         |
| 8,450.00                                      | 8,348.10            | 6,837.59            | 4,988.22            | 30.91           | 36.10       | 1.09                  | 914.44                            | 6,802.99   | 7,763.92             | 7,702.06              | 61.87                   | 125.493           |                    |         |
| 8,500.00                                      | 8,397.14            | 6,825.99            | 4,988.22            | 31.07           | 36.10       | 1.07                  | 914.44                            | 6,802.99   | 7,776.19             | 7,714.31              | 61.88                   | 125.659           |                    |         |
| 8,550.00                                      | 8,445.15            | 6,814.39            | 4,988.22            | 31.23           | 36.10       | 1.05                  | 914.44                            | 6,802.99   | 7,784.50             | 7,722.60              | 61.89                   | 125.774           |                    |         |
| 8,600.00                                      | 8,491.77            | 6,802.79            | 4,988.22            | 31.38           | 36.10       | 1.04                  | 914.44                            | 6,802.99   | 7,788.79             | 7,726.90              | 61.90                   | 125.839           |                    |         |
| 8,650.00                                      | 8,536.65            | 6,791.19            | 4,988.22            | 31.52           | 36.10       | 1.04                  | 914.44                            | 6,802.99   | 7,789.05             | 7,727.16              | 61.89                   | 125.854           |                    |         |
| 8,700.00                                      | 8,579.43            | 6,779.59            | 4,988.22            | 31.66           | 36.10       | 1.05                  | 914.44                            | 6,802.99   | 7,785.28             | 7,723.40              | 61.88                   | 125.822           |                    |         |
| 8,750.00                                      | 8,619.80            | 6,767.99            | 4,988.22            | 31.80           | 36.10       | 1.06                  | 914.44                            | 6,802.99   | 7,777.49             | 7,715.63              | 61.85                   | 125.742           |                    |         |
| 8,800.00                                      | 8,657.44            | 6,756.39            | 4,988.22            | 31.93           | 36.10       | 1.09                  | 914.44                            | 6,802.99   | 7,765.73             | 7,703.91              | 61.82                   | 125.615           |                    |         |
| 8,850.00                                      | 8,692.08            | 6,744.79            | 4,988.22            | 32.06           | 36.10       | 1.12                  | 914.44                            | 6,802.99   | 7,750.08             | 7,688.29              | 61.78                   | 125.442           |                    |         |
| 8,900.00                                      | 8,723.44            | 6,733.19            | 4,988.22            | 32.19           | 36.10       | 1.16                  | 914.44                            | 6,802.99   | 7,730.62             | 7,668.89              | 61.73                   | 125.224           |                    |         |
| 8,950.00                                      | 8,751.29            | 6,721.59            | 4,988.22            | 32.34           | 36.10       | 1.21                  | 914.44                            | 6,802.99   | 7,707.49             | 7,645.81              | 61.68                   | 124.960           |                    |         |
| 9,000.00                                      | 8,775.42            | 6,709.99            | 4,988.22            | 32.50           | 36.10       | 1.28                  | 914.44                            | 6,802.99   | 7,680.82             | 7,619.20              | 61.62                   | 124.651           |                    |         |
| 9,050.00                                      | 8,795.64            | 6,698.39            | 4,988.22            | 32.67           | 36.10       | 1.37                  | 914.44                            | 6,802.99   | 7,650.79             | 7,589.23              | 61.55                   | 124.298           |                    |         |
| 9,100.00                                      | 8,811.80            | 6,686.79            | 4,988.22            | 32.87           | 36.10       | 1.48                  | 914.44                            | 6,802.99   | 7,617.57             | 7,556.09              | 61.48                   | 123.901           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 4452-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,150.00                                      | 8,823.77            | 6,942.00            | 4,988.22            | 33.10           | 36.10       | 1.62                  | 914.44                            | 6,802.99   | 7,581.39             | 7,519.98              | 61.41                   | 123.461           |                    |         |
| 9,200.00                                      | 8,831.47            | 6,942.00            | 4,988.22            | 33.34           | 36.10       | 1.81                  | 914.44                            | 6,802.99   | 7,542.48             | 7,481.15              | 61.33                   | 122.978           |                    |         |
| 9,250.00                                      | 8,834.84            | 6,942.00            | 4,988.22            | 33.60           | 36.10       | 2.06                  | 914.44                            | 6,802.99   | 7,501.09             | 7,439.83              | 61.26                   | 122.454           |                    |         |
| 9,263.62                                      | 8,835.00            | 6,942.00            | 4,988.22            | 33.67           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 7,489.42             | 7,428.18              | 61.24                   | 122.299           |                    |         |
| 9,300.00                                      | 8,835.00            | 6,942.00            | 4,988.22            | 33.88           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 7,458.07             | 7,396.89              | 61.18                   | 121.903           |                    |         |
| 9,400.00                                      | 8,835.00            | 6,942.00            | 4,988.22            | 34.53           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 7,372.12             | 7,311.11              | 61.02                   | 120.818           |                    |         |
| 9,500.00                                      | 8,835.00            | 6,942.00            | 4,988.22            | 35.30           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 7,286.54             | 7,225.68              | 60.86                   | 119.730           |                    |         |
| 9,600.00                                      | 8,835.00            | 6,942.00            | 4,988.22            | 36.17           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 7,201.32             | 7,140.62              | 60.70                   | 118.637           |                    |         |
| 9,700.00                                      | 8,835.00            | 6,942.00            | 4,988.22            | 37.13           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 7,116.49             | 7,055.95              | 60.55                   | 117.539           |                    |         |
| 9,800.00                                      | 8,835.00            | 6,942.00            | 4,988.22            | 38.18           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 7,032.06             | 6,971.67              | 60.39                   | 116.436           |                    |         |
| 9,900.00                                      | 8,835.00            | 6,942.00            | 4,988.22            | 39.31           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,948.04             | 6,887.80              | 60.25                   | 115.328           |                    |         |
| 10,000.00                                     | 8,835.00            | 6,942.00            | 4,988.22            | 40.51           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,864.45             | 6,804.35              | 60.10                   | 114.214           |                    |         |
| 10,100.00                                     | 8,835.00            | 6,942.00            | 4,988.22            | 41.78           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,781.31             | 6,721.34              | 59.96                   | 113.094           |                    |         |
| 10,200.00                                     | 8,835.00            | 6,942.00            | 4,988.22            | 43.10           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,698.62             | 6,638.79              | 59.83                   | 111.968           |                    |         |
| 10,300.00                                     | 8,835.00            | 6,942.00            | 4,988.22            | 44.49           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,616.41             | 6,556.72              | 59.70                   | 110.834           |                    |         |
| 10,400.00                                     | 8,835.00            | 6,942.00            | 4,988.22            | 45.92           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,534.70             | 6,475.13              | 59.57                   | 109.694           |                    |         |
| 10,500.00                                     | 8,835.00            | 6,942.00            | 4,988.22            | 47.39           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,453.51             | 6,394.05              | 59.45                   | 108.545           |                    |         |
| 10,600.00                                     | 8,835.00            | 6,942.00            | 4,988.22            | 48.91           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,372.85             | 6,313.50              | 59.34                   | 107.388           |                    |         |
| 10,700.00                                     | 8,835.00            | 6,942.00            | 4,988.22            | 50.47           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,292.74             | 6,233.50              | 59.24                   | 106.223           |                    |         |
| 10,800.00                                     | 8,835.00            | 6,942.00            | 4,988.22            | 52.06           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,213.21             | 6,154.07              | 59.15                   | 105.050           |                    |         |
| 10,900.00                                     | 8,835.00            | 6,942.00            | 4,988.22            | 53.68           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,134.28             | 6,075.22              | 59.06                   | 103.867           |                    |         |
| 11,000.00                                     | 8,835.00            | 6,917.61            | 4,987.98            | 55.32           | 35.79       | 1.77                  | 938.82                            | 6,803.16   | 6,055.86             | 5,997.13              | 58.72                   | 103.125           |                    |         |
| 11,100.00                                     | 8,835.00            | 6,917.04            | 4,987.97            | 57.00           | 35.78       | 1.76                  | 939.39                            | 6,803.17   | 5,978.19             | 5,919.54              | 58.65                   | 101.926           |                    |         |
| 11,200.00                                     | 8,835.00            | 6,916.47            | 4,987.97            | 58.70           | 35.77       | 1.75                  | 939.96                            | 6,803.17   | 5,901.19             | 5,842.60              | 58.59                   | 100.717           |                    |         |
| 11,300.00                                     | 8,835.00            | 6,915.90            | 4,987.96            | 60.41           | 35.76       | 1.74                  | 940.53                            | 6,803.17   | 5,824.90             | 5,766.35              | 58.54                   | 99.497            |                    |         |
| 11,400.00                                     | 8,835.00            | 6,915.33            | 4,987.95            | 62.15           | 35.76       | 1.74                  | 941.11                            | 6,803.18   | 5,749.33             | 5,690.82              | 58.51                   | 98.267            |                    |         |
| 11,500.00                                     | 8,835.00            | 6,914.75            | 4,987.94            | 63.91           | 35.75       | 1.73                  | 941.69                            | 6,803.18   | 5,674.51             | 5,616.03              | 58.48                   | 97.027            |                    |         |
| 11,600.00                                     | 8,835.00            | 6,914.17            | 4,987.93            | 65.69           | 35.74       | 1.72                  | 942.27                            | 6,803.19   | 5,600.49             | 5,542.01              | 58.47                   | 95.776            |                    |         |
| 11,700.00                                     | 8,835.00            | 6,913.58            | 4,987.92            | 67.47           | 35.73       | 1.71                  | 942.85                            | 6,803.19   | 5,527.28             | 5,468.80              | 58.48                   | 94.515            |                    |         |
| 11,800.00                                     | 8,835.00            | 6,913.00            | 4,987.91            | 69.28           | 35.73       | 1.70                  | 943.44                            | 6,803.20   | 5,454.92             | 5,396.42              | 58.50                   | 93.245            |                    |         |
| 11,900.00                                     | 8,835.00            | 6,912.41            | 4,987.91            | 71.09           | 35.72       | 1.69                  | 944.03                            | 6,803.20   | 5,383.44             | 5,324.91              | 58.54                   | 91.965            |                    |         |
| 12,000.00                                     | 8,835.00            | 6,911.81            | 4,987.90            | 72.92           | 35.71       | 1.68                  | 944.62                            | 6,803.21   | 5,312.89             | 5,254.30              | 58.59                   | 90.676            |                    |         |
| 12,100.00                                     | 8,835.00            | 6,911.22            | 4,987.89            | 74.76           | 35.70       | 1.67                  | 945.22                            | 6,803.21   | 5,243.29             | 5,184.63              | 58.66                   | 89.379            |                    |         |
| 12,200.00                                     | 8,835.00            | 6,910.62            | 4,987.88            | 76.61           | 35.70       | 1.66                  | 945.82                            | 6,803.22   | 5,174.70             | 5,115.94              | 58.75                   | 88.076            |                    |         |
| 12,300.00                                     | 8,835.00            | 6,910.02            | 4,987.87            | 78.47           | 35.69       | 1.66                  | 946.42                            | 6,803.22   | 5,107.13             | 5,048.27              | 58.86                   | 86.766            |                    |         |
| 12,400.00                                     | 8,835.00            | 6,909.41            | 4,987.86            | 80.34           | 35.68       | 1.65                  | 947.02                            | 6,803.23   | 5,040.65             | 4,981.66              | 58.99                   | 85.451            |                    |         |
| 12,500.00                                     | 8,835.00            | 6,908.81            | 4,987.85            | 82.22           | 35.67       | 1.64                  | 947.63                            | 6,803.23   | 4,975.28             | 4,916.15              | 59.14                   | 84.132            |                    |         |
| 12,600.00                                     | 8,835.00            | 6,908.20            | 4,987.84            | 84.11           | 35.67       | 1.63                  | 948.24                            | 6,803.24   | 4,911.09             | 4,851.78              | 59.30                   | 82.811            |                    |         |
| 12,700.00                                     | 8,835.00            | 6,907.58            | 4,987.83            | 86.00           | 35.66       | 1.62                  | 948.85                            | 6,803.24   | 4,848.10             | 4,788.61              | 59.49                   | 81.490            |                    |         |
| 12,800.00                                     | 8,835.00            | 6,906.96            | 4,987.82            | 87.90           | 35.65       | 1.61                  | 949.47                            | 6,803.25   | 4,786.38             | 4,726.68              | 59.70                   | 80.169            |                    |         |
| 12,900.00                                     | 8,835.00            | 6,906.35            | 4,987.81            | 89.81           | 35.64       | 1.60                  | 950.09                            | 6,803.25   | 4,725.96             | 4,666.03              | 59.94                   | 78.851            |                    |         |
| 13,000.00                                     | 8,835.00            | 6,905.72            | 4,987.80            | 91.72           | 35.63       | 1.59                  | 950.71                            | 6,803.26   | 4,666.91             | 4,606.72              | 60.19                   | 77.538            |                    |         |
| 13,100.00                                     | 8,835.00            | 6,905.10            | 4,987.79            | 93.64           | 35.62       | 1.58                  | 951.34                            | 6,803.26   | 4,609.27             | 4,548.81              | 60.46                   | 76.232            |                    |         |
| 13,200.00                                     | 8,835.00            | 6,904.47            | 4,987.77            | 95.56           | 35.62       | 1.57                  | 951.97                            | 6,803.27   | 4,553.10             | 4,492.34              | 60.76                   | 74.934            |                    |         |
| 13,300.00                                     | 8,835.00            | 6,903.83            | 4,987.76            | 97.49           | 35.61       | 1.56                  | 952.60                            | 6,803.28   | 4,498.44             | 4,437.36              | 61.08                   | 73.647            |                    |         |
| 13,400.00                                     | 8,835.00            | 6,903.20            | 4,987.75            | 99.42           | 35.60       | 1.55                  | 953.23                            | 6,803.28   | 4,445.37             | 4,383.95              | 61.42                   | 72.372            |                    |         |
| 13,500.00                                     | 8,835.00            | 6,902.56            | 4,987.74            | 101.36          | 35.59       | 1.54                  | 953.87                            | 6,803.29   | 4,393.93             | 4,332.14              | 61.79                   | 71.113            |                    |         |
| 13,600.00                                     | 8,835.00            | 6,901.92            | 4,987.73            | 103.30          | 35.58       | 1.53                  | 954.51                            | 6,803.29   | 4,344.18             | 4,282.01              | 62.17                   | 69.871            |                    |         |
| 13,700.00                                     | 8,835.00            | 6,901.27            | 4,987.72            | 105.25          | 35.58       | 1.52                  | 955.16                            | 6,803.30   | 4,296.19             | 4,233.61              | 62.58                   | 68.648            |                    |         |
| 13,800.00                                     | 8,835.00            | 6,900.62            | 4,987.70            | 107.20          | 35.57       | 1.51                  | 955.81                            | 6,803.30   | 4,250.00             | 4,186.99              | 63.01                   | 67.447            |                    |         |
| 13,900.00                                     | 8,835.00            | 6,899.97            | 4,987.69            | 109.15          | 35.56       | 1.50                  | 956.46                            | 6,803.31   | 4,205.69             | 4,142.23              | 63.46                   | 66.268            |                    |         |
| 14,000.00                                     | 8,835.00            | 6,899.32            | 4,987.68            | 111.10          | 35.55       | 1.49                  | 957.12                            | 6,803.32   | 4,163.31             | 4,099.37              | 63.94                   | 65.115            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 4452-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 14,100.00                                     | 8,835.00            | 6,898.66            | 4,987.67            | 113.06          | 35.54       | 1.48                  | 957.77                            | 6,803.32   | 4,122.92             | 4,058.48              | 64.43                   | 63.988            |                    |         |
| 14,200.00                                     | 8,835.00            | 6,898.00            | 4,987.65            | 115.03          | 35.53       | 1.47                  | 958.44                            | 6,803.33   | 4,084.57             | 4,019.62              | 64.95                   | 62.889            |                    |         |
| 14,300.00                                     | 8,835.00            | 6,897.33            | 4,987.64            | 116.99          | 35.52       | 1.46                  | 959.10                            | 6,803.33   | 4,048.34             | 3,982.85              | 65.49                   | 61.820            |                    |         |
| 14,400.00                                     | 8,835.00            | 6,896.66            | 4,987.63            | 118.96          | 35.52       | 1.45                  | 959.77                            | 6,803.34   | 4,014.26             | 3,948.22              | 66.04                   | 60.781            |                    |         |
| 14,500.00                                     | 8,835.00            | 6,895.99            | 4,987.61            | 120.93          | 35.51       | 1.44                  | 960.44                            | 6,803.35   | 3,982.41             | 3,915.79              | 66.62                   | 59.775            |                    |         |
| 14,600.00                                     | 8,835.00            | 6,895.31            | 4,987.60            | 122.90          | 35.50       | 1.43                  | 961.12                            | 6,803.35   | 3,952.83             | 3,885.61              | 67.22                   | 58.802            |                    |         |
| 14,700.00                                     | 8,835.00            | 6,894.63            | 4,987.59            | 124.88          | 35.49       | 1.42                  | 961.80                            | 6,803.36   | 3,925.58             | 3,857.73              | 67.84                   | 57.862            |                    |         |
| 14,800.00                                     | 8,835.00            | 6,893.95            | 4,987.57            | 126.86          | 35.48       | 1.41                  | 962.48                            | 6,803.36   | 3,900.70             | 3,832.21              | 68.48                   | 56.957            |                    |         |
| 14,900.00                                     | 8,835.00            | 6,893.26            | 4,987.56            | 128.84          | 35.47       | 1.40                  | 963.17                            | 6,803.37   | 3,878.24             | 3,809.09              | 69.15                   | 56.087            |                    |         |
| 15,000.00                                     | 8,835.00            | 6,892.57            | 4,987.54            | 130.82          | 35.46       | 1.39                  | 963.86                            | 6,803.38   | 3,858.24             | 3,788.41              | 69.83                   | 55.252            |                    |         |
| 15,100.00                                     | 8,835.00            | 6,891.88            | 4,987.53            | 132.80          | 35.45       | 1.38                  | 964.55                            | 6,803.38   | 3,840.74             | 3,770.21              | 70.53                   | 54.454            |                    |         |
| 15,200.00                                     | 8,835.00            | 6,891.18            | 4,987.51            | 134.79          | 35.44       | 1.37                  | 965.25                            | 6,803.39   | 3,825.78             | 3,754.52              | 71.26                   | 53.691            |                    |         |
| 15,300.00                                     | 8,835.00            | 6,890.48            | 4,987.50            | 136.78          | 35.44       | 1.36                  | 965.95                            | 6,803.40   | 3,813.38             | 3,741.38              | 72.00                   | 52.965            |                    |         |
| 15,400.00                                     | 8,835.00            | 6,889.77            | 4,987.48            | 138.76          | 35.43       | 1.35                  | 966.66                            | 6,803.40   | 3,803.56             | 3,730.80              | 72.76                   | 52.276            |                    |         |
| 15,500.00                                     | 8,835.00            | 6,889.06            | 4,987.47            | 140.76          | 35.42       | 1.34                  | 967.37                            | 6,803.41   | 3,796.36             | 3,722.82              | 73.54                   | 51.623            |                    |         |
| 15,600.00                                     | 8,835.00            | 6,888.35            | 4,987.45            | 142.75          | 35.41       | 1.33                  | 968.08                            | 6,803.42   | 3,791.79             | 3,717.45              | 74.34                   | 51.009            |                    |         |
| 15,700.00                                     | 8,835.00            | 6,887.63            | 4,987.43            | 144.74          | 35.40       | 1.32                  | 968.80                            | 6,803.42   | 3,789.84             | 3,714.69              | 75.15                   | 50.432            |                    |         |
| 15,723.69                                     | 8,835.00            | 6,887.46            | 4,987.43            | 145.21          | 35.40       | 1.31                  | 968.97                            | 6,803.43   | 3,789.77             | 3,714.43              | 75.34                   | 50.301            | CC, ES             |         |
| 15,800.00                                     | 8,835.00            | 6,886.91            | 4,987.42            | 146.74          | 35.39       | 1.31                  | 969.52                            | 6,803.43   | 3,790.54             | 3,714.56              | 75.97                   | 49.894            |                    |         |
| 15,900.00                                     | 8,835.00            | 6,886.19            | 4,987.40            | 148.73          | 35.38       | 1.30                  | 970.24                            | 6,803.44   | 3,793.87             | 3,717.06              | 76.81                   | 49.395            |                    |         |
| 16,000.00                                     | 8,835.00            | 6,885.46            | 4,987.38            | 150.73          | 35.37       | 1.28                  | 970.97                            | 6,803.44   | 3,799.83             | 3,722.18              | 77.65                   | 48.936            |                    |         |
| 16,100.00                                     | 8,835.00            | 6,884.73            | 4,987.37            | 152.73          | 35.36       | 1.27                  | 971.70                            | 6,803.45   | 3,808.40             | 3,729.90              | 78.50                   | 48.516            |                    |         |
| 16,200.00                                     | 8,835.00            | 6,883.99            | 4,987.35            | 154.73          | 35.35       | 1.26                  | 972.44                            | 6,803.46   | 3,819.58             | 3,740.23              | 79.35                   | 48.137            |                    |         |
| 16,300.00                                     | 8,835.00            | 6,883.25            | 4,987.33            | 156.73          | 35.34       | 1.25                  | 973.18                            | 6,803.47   | 3,833.33             | 3,753.13              | 80.20                   | 47.799            |                    |         |
| 16,400.00                                     | 8,835.00            | 6,882.50            | 4,987.31            | 158.74          | 35.33       | 1.24                  | 973.92                            | 6,803.47   | 3,849.63             | 3,768.59              | 81.04                   | 47.503            |                    |         |
| 16,500.00                                     | 8,835.00            | 6,881.76            | 4,987.29            | 160.74          | 35.32       | 1.23                  | 974.67                            | 6,803.48   | 3,868.45             | 3,786.58              | 81.88                   | 47.248            |                    |         |
| 16,600.00                                     | 8,835.00            | 6,881.00            | 4,987.27            | 162.74          | 35.31       | 1.22                  | 975.42                            | 6,803.49   | 3,889.75             | 3,807.05              | 82.70                   | 47.034            |                    |         |
| 16,700.00                                     | 8,835.00            | 6,880.24            | 4,987.26            | 164.75          | 35.30       | 1.21                  | 976.18                            | 6,803.50   | 3,913.49             | 3,829.98              | 83.51                   | 46.862            |                    |         |
| 16,800.00                                     | 8,835.00            | 6,879.48            | 4,987.24            | 166.76          | 35.29       | 1.19                  | 976.94                            | 6,803.50   | 3,939.62             | 3,855.32              | 84.30                   | 46.731            |                    |         |
| 16,900.00                                     | 8,835.00            | 6,878.72            | 4,987.22            | 168.77          | 35.28       | 1.18                  | 977.71                            | 6,803.51   | 3,968.11             | 3,883.03              | 85.08                   | 46.641            |                    |         |
| 17,000.00                                     | 8,835.00            | 6,877.95            | 4,987.20            | 170.77          | 35.27       | 1.17                  | 978.48                            | 6,803.52   | 3,998.89             | 3,913.06              | 85.83                   | 46.592            |                    |         |
| 17,100.00                                     | 8,835.00            | 6,877.17            | 4,987.18            | 172.78          | 35.26       | 1.16                  | 979.25                            | 6,803.53   | 4,031.91             | 3,945.36              | 86.56                   | 46.582            |                    |         |
| 17,200.00                                     | 8,835.00            | 6,876.39            | 4,987.16            | 174.79          | 35.25       | 1.15                  | 980.03                            | 6,803.54   | 4,067.13             | 3,979.88              | 87.26                   | 46.611            |                    |         |
| 17,300.00                                     | 8,835.00            | 6,875.61            | 4,987.14            | 176.81          | 35.24       | 1.14                  | 980.81                            | 6,803.54   | 4,104.48             | 4,016.55              | 87.93                   | 46.678            |                    |         |
| 17,400.00                                     | 8,835.00            | 6,874.82            | 4,987.11            | 178.82          | 35.23       | 1.12                  | 981.60                            | 6,803.55   | 4,143.91             | 4,055.33              | 88.58                   | 46.782            |                    |         |
| 17,500.00                                     | 8,835.00            | 6,874.03            | 4,987.09            | 180.83          | 35.22       | 1.11                  | 982.39                            | 6,803.56   | 4,185.36             | 4,096.16              | 89.20                   | 46.922            |                    |         |
| 17,600.00                                     | 8,835.00            | 6,873.24            | 4,987.07            | 182.84          | 35.21       | 1.10                  | 983.19                            | 6,803.57   | 4,228.76             | 4,138.98              | 89.79                   | 47.097            |                    |         |
| 17,700.00                                     | 8,835.00            | 6,872.43            | 4,987.05            | 184.86          | 35.20       | 1.09                  | 983.99                            | 6,803.58   | 4,274.07             | 4,183.72              | 90.35                   | 47.306            |                    |         |
| 17,800.00                                     | 8,835.00            | 6,871.63            | 4,987.03            | 186.87          | 35.19       | 1.08                  | 984.79                            | 6,803.59   | 4,321.21             | 4,230.33              | 90.88                   | 47.548            |                    |         |
| 17,900.00                                     | 8,835.00            | 6,870.82            | 4,987.00            | 188.89          | 35.18       | 1.06                  | 985.60                            | 6,803.59   | 4,370.14             | 4,278.75              | 91.38                   | 47.822            |                    |         |
| 18,000.00                                     | 8,835.00            | 6,870.00            | 4,986.98            | 190.91          | 35.17       | 1.05                  | 986.42                            | 6,803.60   | 4,420.78             | 4,328.92              | 91.86                   | 48.126            |                    |         |
| 18,100.00                                     | 8,835.00            | 6,869.18            | 4,986.96            | 192.92          | 35.16       | 1.04                  | 987.24                            | 6,803.61   | 4,473.09             | 4,380.78              | 92.31                   | 48.459            |                    |         |
| 18,200.00                                     | 8,835.00            | 6,868.36            | 4,986.93            | 194.94          | 35.15       | 1.03                  | 988.06                            | 6,803.62   | 4,527.00             | 4,434.27              | 92.73                   | 48.821            |                    |         |
| 18,300.00                                     | 8,835.00            | 6,867.53            | 4,986.91            | 196.96          | 35.14       | 1.01                  | 988.89                            | 6,803.63   | 4,582.46             | 4,489.33              | 93.12                   | 49.210            |                    |         |
| 18,400.00                                     | 8,835.00            | 6,866.70            | 4,986.89            | 198.98          | 35.13       | 1.00                  | 989.72                            | 6,803.64   | 4,639.41             | 4,545.92              | 93.49                   | 49.625            |                    |         |
| 18,500.00                                     | 8,835.00            | 18,500.00           | 4,986.25            | 201.00          | 185.52      | 0.70                  | 1,009.52                          | 6,803.87   | 4,697.87             | 4,492.52              | 205.35                  | 22.877            | SF                 |         |
| 18,600.00                                     | 8,835.00            | 18,600.00           | 4,986.18            | 203.02          | 186.82      | 0.67                  | 1,011.68                          | 6,803.90   | 4,757.64             | 4,549.85              | 207.78                  | 22.897            |                    |         |
| 18,700.00                                     | 8,835.00            | 18,700.00           | 4,986.12            | 205.04          | 188.11      | 0.64                  | 1,013.85                          | 6,803.93   | 4,818.74             | 4,608.55              | 210.18                  | 22.926            |                    |         |
| 18,800.00                                     | 8,835.00            | 18,800.00           | 4,986.06            | 207.06          | 189.41      | 0.60                  | 1,016.01                          | 6,803.97   | 4,881.12             | 4,668.57              | 212.55                  | 22.965            |                    |         |
| 18,900.00                                     | 8,835.00            | 18,900.00           | 4,986.00            | 209.08          | 190.70      | 0.57                  | 1,018.18                          | 6,804.00   | 4,944.74             | 4,729.85              | 214.89                  | 23.011            |                    |         |
| 19,000.00                                     | 8,835.00            | 19,000.00           | 4,985.94            | 211.10          | 192.00      | 0.54                  | 1,020.34                          | 6,804.04   | 5,009.54             | 4,792.35              | 217.19                  | 23.065            |                    |         |
| 19,100.00                                     | 8,835.00            | 19,100.00           | 4,985.88            | 213.12          | 193.29      | 0.51                  | 1,022.50                          | 6,804.07   | 5,075.49             | 4,856.03              | 219.46                  | 23.127            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw State 3H - Wellbore #1 - Wellbore #1 |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Site Error:</b> | 5.00 ft |
|---------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|-----------------------------------------|---------------|-------------------------|--------------------------|----------------------------|---------------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 4452-MWD+HDGM                                               |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                   |                        | Offset                 |                        | Semi Major Axis   |                |                          | Distance                                |               |                         |                          |                            |                           | Warning |
| Measured Depth<br>(ft)                                                                      | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between Centres<br>(ft) | Between Ellipses<br>(ft) | Minimum Separation<br>(ft) | Separation Factor         |         |
| 19,200.00                                                                                   | 8,835.00               | 19,200.00              | 4,985.82               | 215.15            | 194.59         | 0.47                     | 1,024.67                                | 6,804.10      | 5,142.53                | 4,920.83                 | 221.70                     | 23.196                    |         |
| 19,308.27                                                                                   | 8,835.00               | 19,308.27              | 4,985.75               | 217.34            | 195.99         | 0.44                     | 1,027.01                                | 6,804.14      | 5,216.31                | 4,992.22                 | 224.09                     | 23.278                    |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 2922-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                                          | 0.00                | 0.00                | 0.00                | 0.50            | 5.02        | 67.10                 | 3,259.92                          | 7,715.55   | 8,376.16             |                       |                         |                   |                    |         |
| 100.00                                        | 100.00              | 38.30               | 38.30               | 0.52            | 5.03        | 67.10                 | 3,259.92                          | 7,715.55   | 8,375.97             | 8,370.43              | 5.54                    | 1,511.104         |                    |         |
| 200.00                                        | 200.00              | 138.37              | 138.37              | 0.70            | 5.03        | 67.10                 | 3,259.99                          | 7,715.61   | 8,376.05             | 8,370.32              | 5.73                    | 1,460.755         |                    |         |
| 300.00                                        | 300.00              | 262.01              | 262.01              | 0.99            | 5.07        | 67.09                 | 3,260.41                          | 7,715.32   | 8,375.97             | 8,369.91              | 6.06                    | 1,382.075         |                    |         |
| 400.00                                        | 400.00              | 400.00              | 466.75              | 1.31            | 5.16        | 67.09                 | 3,259.79                          | 7,713.68   | 8,375.12             | 8,368.65              | 6.47                    | 1,294.403         |                    |         |
| 500.00                                        | 500.00              | 624.90              | 624.85              | 1.65            | 5.40        | 67.10                 | 3,257.38                          | 7,711.17   | 8,372.94             | 8,365.89              | 7.04                    | 1,189.089         |                    |         |
| 600.00                                        | 600.00              | 685.91              | 685.85              | 1.99            | 5.48        | 67.10                 | 3,256.55                          | 7,710.23   | 8,370.99             | 8,363.52              | 7.47                    | 1,120.953         |                    |         |
| 700.00                                        | 700.00              | 763.71              | 763.63              | 2.34            | 5.60        | 67.10                 | 3,255.90                          | 7,709.20   | 8,369.43             | 8,361.50              | 7.93                    | 1,055.332         |                    |         |
| 800.00                                        | 800.00              | 874.72              | 874.63              | 2.69            | 5.78        | 67.10                 | 3,255.32                          | 7,707.69   | 8,367.98             | 8,359.52              | 8.46                    | 988.796           |                    |         |
| 900.00                                        | 900.00              | 1,003.73            | 1,003.62            | 3.04            | 6.02        | 67.10                 | 3,254.96                          | 7,705.38   | 8,366.22             | 8,357.17              | 9.05                    | 924.376           |                    |         |
| 1,000.00                                      | 1,000.00            | 1,070.14            | 1,070.02            | 3.40            | 6.15        | 67.10                 | 3,254.91                          | 7,704.17   | 8,364.51             | 8,354.97              | 9.54                    | 877.170           |                    |         |
| 1,100.00                                      | 1,100.00            | 1,360.61            | 1,360.37            | 3.75            | 6.79        | 67.10                 | 3,251.74                          | 7,697.48   | 8,362.19             | 8,351.67              | 10.52                   | 794.662           |                    |         |
| 1,200.00                                      | 1,200.00            | 1,439.83            | 1,439.53            | 4.11            | 6.99        | 67.11                 | 3,249.43                          | 7,695.28   | 8,358.50             | 8,347.43              | 11.07                   | 755.142           |                    |         |
| 1,300.00                                      | 1,300.00            | 1,515.20            | 1,514.85            | 4.46            | 7.18        | 67.12                 | 3,247.19                          | 7,693.43   | 8,355.09             | 8,343.48              | 11.61                   | 719.541           |                    |         |
| 1,400.00                                      | 1,400.00            | 1,589.22            | 1,588.82            | 4.82            | 7.37        | 67.13                 | 3,245.03                          | 7,691.85   | 8,351.98             | 8,339.82              | 12.16                   | 687.040           |                    |         |
| 1,500.00                                      | 1,500.00            | 1,716.67            | 1,716.19            | 5.18            | 7.71        | 67.14                 | 3,241.38                          | 7,689.04   | 8,348.83             | 8,335.99              | 12.85                   | 649.941           |                    |         |
| 1,600.00                                      | 1,600.00            | 1,788.89            | 1,788.36            | 5.53            | 7.91        | 67.15                 | 3,239.38                          | 7,687.45   | 8,345.72             | 8,332.32              | 13.40                   | 622.950           |                    |         |
| 1,700.00                                      | 1,700.00            | 1,920.52            | 1,919.91            | 5.89            | 8.28        | 67.17                 | 3,235.64                          | 7,684.60   | 8,342.63             | 8,328.52              | 14.12                   | 591.037           |                    |         |
| 1,800.00                                      | 1,800.00            | 2,092.57            | 2,091.81            | 6.25            | 8.79        | 67.19                 | 3,230.31                          | 7,679.94   | 8,338.98             | 8,324.02              | 14.96                   | 557.516           |                    |         |
| 1,900.00                                      | 1,900.00            | 2,177.30            | 2,176.46            | 6.61            | 9.04        | 67.20                 | 3,227.83                          | 7,677.18   | 8,334.85             | 8,319.29              | 15.56                   | 535.638           |                    |         |
| 2,000.00                                      | 2,000.00            | 2,245.49            | 2,244.59            | 6.96            | 9.25        | 67.20                 | 3,225.91                          | 7,675.14   | 8,331.01             | 8,314.89              | 16.12                   | 516.838           |                    |         |
| 2,100.00                                      | 2,099.99            | 2,316.89            | 2,315.94            | 7.32            | 9.46        | 80.03                 | 3,223.83                          | 7,673.38   | 8,327.44             | 8,310.75              | 16.69                   | 498.984           |                    |         |
| 2,200.00                                      | 2,199.96            | 2,422.33            | 2,421.30            | 7.68            | 9.79        | 80.10                 | 3,220.65                          | 7,670.85   | 8,323.61             | 8,306.24              | 17.36                   | 479.441           |                    |         |
| 2,300.00                                      | 2,299.86            | 2,500.00            | 2,498.92            | 8.04            | 10.03       | 80.17                 | 3,218.40                          | 7,669.12   | 8,319.66             | 8,301.71              | 17.95                   | 463.405           |                    |         |
| 2,400.00                                      | 2,399.68            | 2,596.25            | 2,595.11            | 8.39            | 10.33       | 80.26                 | 3,215.72                          | 7,667.08   | 8,315.59             | 8,296.99              | 18.60                   | 446.992           |                    |         |
| 2,500.00                                      | 2,499.37            | 2,691.74            | 2,690.54            | 8.75            | 10.63       | 80.37                 | 3,213.14                          | 7,665.03   | 8,311.24             | 8,291.98              | 19.25                   | 431.670           |                    |         |
| 2,600.00                                      | 2,598.90            | 2,769.79            | 2,768.55            | 9.11            | 10.87       | 80.47                 | 3,211.15                          | 7,663.42   | 8,306.75             | 8,286.90              | 19.85                   | 418.423           |                    |         |
| 2,700.00                                      | 2,698.26            | 2,836.81            | 2,835.55            | 9.46            | 10.99       | 80.57                 | 3,209.74                          | 7,662.15   | 8,302.31             | 8,281.99              | 20.32                   | 408.506           |                    |         |
| 2,800.00                                      | 2,797.40            | 2,903.16            | 2,901.87            | 9.82            | 11.10       | 80.68                 | 3,208.92                          | 7,660.95   | 8,298.00             | 8,277.21              | 20.79                   | 399.207           |                    |         |
| 2,900.00                                      | 2,896.30            | 2,989.64            | 2,988.35            | 10.18           | 11.14       | 80.81                 | 3,208.49                          | 7,659.40   | 8,293.73             | 8,272.54              | 21.18                   | 391.521           |                    |         |
| 3,000.00                                      | 2,994.93            | 3,339.89            | 3,337.93            | 10.54           | 11.27       | 81.16                 | 3,217.22                          | 7,642.24   | 8,286.78             | 8,265.12              | 21.66                   | 382.635           |                    |         |
| 3,100.00                                      | 3,093.26            | 3,440.95            | 3,438.62            | 10.90           | 11.33       | 81.31                 | 3,222.00                          | 7,635.01   | 8,279.03             | 8,256.95              | 22.08                   | 374.946           |                    |         |
| 3,195.07                                      | 3,186.42            | 3,534.95            | 3,532.27            | 11.24           | 11.40       | 81.47                 | 3,226.42                          | 7,628.27   | 8,271.42             | 8,248.92              | 22.49                   | 367.709           |                    |         |
| 3,200.00                                      | 3,191.25            | 3,539.73            | 3,537.04            | 11.26           | 11.40       | 81.48                 | 3,226.65                          | 7,627.93   | 8,271.02             | 8,248.50              | 22.52                   | 367.337           |                    |         |
| 3,300.00                                      | 3,289.08            | 3,636.61            | 3,633.57            | 11.62           | 11.48       | 81.57                 | 3,231.23                          | 7,621.00   | 8,262.92             | 8,239.96              | 22.96                   | 359.831           |                    |         |
| 3,400.00                                      | 3,386.91            | 3,734.62            | 3,731.21            | 11.98           | 11.58       | 81.66                 | 3,235.91                          | 7,613.98   | 8,254.87             | 8,231.45              | 23.42                   | 352.410           |                    |         |
| 3,500.00                                      | 3,484.74            | 3,833.44            | 3,829.65            | 12.35           | 11.68       | 81.75                 | 3,240.76                          | 7,606.86   | 8,246.84             | 8,222.95              | 23.90                   | 345.084           |                    |         |
| 3,600.00                                      | 3,582.58            | 3,928.67            | 3,924.52            | 12.72           | 11.79       | 81.84                 | 3,245.42                          | 7,600.01   | 8,238.85             | 8,214.47              | 24.38                   | 337.934           |                    |         |
| 3,700.00                                      | 3,680.41            | 3,990.40            | 3,986.02            | 13.09           | 11.86       | 81.90                 | 3,248.43                          | 7,595.68   | 8,231.07             | 8,206.23              | 24.83                   | 331.471           |                    |         |
| 3,800.00                                      | 3,778.24            | 4,056.00            | 4,051.41            | 13.46           | 11.95       | 81.96                 | 3,251.84                          | 7,591.56   | 8,223.97             | 8,198.68              | 25.29                   | 325.150           |                    |         |
| 3,900.00                                      | 3,876.08            | 4,249.14            | 4,244.02            | 13.83           | 12.22       | 82.16                 | 3,258.65                          | 7,579.19   | 8,216.20             | 8,190.27              | 25.94                   | 316.799           |                    |         |
| 4,000.00                                      | 3,973.91            | 4,278.03            | 4,272.84            | 14.21           | 12.27       | 82.20                 | 3,259.51                          | 7,577.39   | 8,208.47             | 8,182.11              | 26.36                   | 311.378           |                    |         |
| 4,100.00                                      | 4,071.74            | 4,309.23            | 4,303.98            | 14.58           | 12.31       | 82.23                 | 3,260.54                          | 7,575.67   | 8,201.58             | 8,174.79              | 26.79                   | 306.125           |                    |         |
| 4,200.00                                      | 4,169.57            | 4,341.27            | 4,335.97            | 14.96           | 12.36       | 82.26                 | 3,261.72                          | 7,574.15   | 8,195.53             | 8,168.31              | 27.22                   | 301.056           |                    |         |
| 4,300.00                                      | 4,267.41            | 4,424.01            | 4,418.56            | 15.33           | 12.50       | 82.35                 | 3,264.95                          | 7,570.58   | 8,190.00             | 8,162.27              | 27.74                   | 295.277           |                    |         |
| 4,400.00                                      | 4,365.24            | 4,521.29            | 4,515.68            | 15.71           | 12.66       | 82.46                 | 3,268.77                          | 7,566.48   | 8,184.62             | 8,156.34              | 28.28                   | 289.400           |                    |         |
| 4,500.00                                      | 4,463.07            | 4,614.27            | 4,608.51            | 16.09           | 12.82       | 82.56                 | 3,272.37                          | 7,562.62   | 8,179.29             | 8,150.46              | 28.83                   | 283.738           |                    |         |
| 4,600.00                                      | 4,560.90            | 4,713.41            | 4,707.49            | 16.47           | 13.01       | 82.67                 | 3,276.16                          | 7,558.56   | 8,174.03             | 8,144.64              | 29.39                   | 278.114           |                    |         |
| 4,700.00                                      | 4,658.74            | 4,802.74            | 4,796.69            | 16.85           | 13.18       | 82.77                 | 3,279.48                          | 7,554.98   | 8,168.84             | 8,138.90              | 29.94                   | 272.802           |                    |         |
| 4,800.00                                      | 4,756.57            | 4,800.00            | 7,752.71            | 17.23           | 27.68       | 105.91                | 609.78                            | 7,460.74   | 8,156.80             | 8,114.48              | 42.32                   | 192.750           |                    |         |
| 4,900.00                                      | 4,854.40            | 10,189.43           | 7,751.94            | 17.61           | 42.70       | 105.15                | 713.74                            | 7,458.20   | 8,124.42             | 8,066.77              | 57.65                   | 140.938           |                    |         |
| 5,000.00                                      | 4,952.23            | 10,159.12           | 7,751.39            | 17.99           | 42.31       | 104.93                | 744.03                            | 7,457.39   | 8,093.00             | 8,035.20              | 57.80                   | 140.018           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 2922-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                                      | 5,050.07            | 10,156.00           | 7,751.33            | 18.37           | 42.27       | 104.90                | 747.15                            | 7,457.31   | 8,062.65             | 8,004.36              | 58.30                   | 138.307           |                    |         |
| 5,200.00                                      | 5,147.90            | 10,156.00           | 7,751.33            | 18.75           | 42.27       | 104.90                | 747.15                            | 7,457.31   | 8,033.44             | 7,974.61              | 58.83                   | 136.556           |                    |         |
| 5,300.00                                      | 5,245.73            | 10,129.78           | 7,750.90            | 19.14           | 41.94       | 104.71                | 773.36                            | 7,456.62   | 8,005.28             | 7,946.25              | 59.03                   | 135.616           |                    |         |
| 5,400.00                                      | 5,343.56            | 10,120.36           | 7,750.78            | 19.52           | 41.82       | 104.64                | 782.77                            | 7,456.39   | 7,978.29             | 7,918.85              | 59.44                   | 134.229           |                    |         |
| 5,500.00                                      | 5,441.40            | 10,110.76           | 7,750.68            | 19.90           | 41.69       | 104.57                | 792.37                            | 7,456.15   | 7,952.44             | 7,892.60              | 59.84                   | 132.893           |                    |         |
| 5,600.00                                      | 5,539.23            | 10,100.95           | 7,750.59            | 20.29           | 41.57       | 104.50                | 802.18                            | 7,455.92   | 7,927.75             | 7,867.51              | 60.24                   | 131.607           |                    |         |
| 5,700.00                                      | 5,637.06            | 10,090.94           | 7,750.53            | 20.67           | 41.44       | 104.43                | 812.18                            | 7,455.69   | 7,904.22             | 7,843.59              | 60.63                   | 130.371           |                    |         |
| 5,800.00                                      | 5,734.90            | 10,080.72           | 7,750.48            | 21.05           | 41.31       | 104.36                | 822.41                            | 7,455.46   | 7,881.86             | 7,820.85              | 61.01                   | 129.185           |                    |         |
| 5,900.00                                      | 5,832.73            | 10,062.00           | 7,750.46            | 21.44           | 41.07       | 104.22                | 841.12                            | 7,455.05   | 7,860.70             | 7,799.42              | 61.28                   | 128.269           |                    |         |
| 6,000.00                                      | 5,930.56            | 10,058.31           | 7,750.46            | 21.83           | 41.03       | 104.19                | 844.81                            | 7,454.98   | 7,840.71             | 7,778.97              | 61.74                   | 126.993           |                    |         |
| 6,100.00                                      | 6,028.39            | 10,042.16           | 7,750.42            | 22.21           | 40.82       | 104.07                | 860.95                            | 7,454.66   | 7,821.91             | 7,759.88              | 62.04                   | 126.085           |                    |         |
| 6,200.00                                      | 6,126.23            | 10,026.70           | 7,750.31            | 22.60           | 40.63       | 103.96                | 876.41                            | 7,454.38   | 7,804.32             | 7,741.98              | 62.34                   | 125.198           |                    |         |
| 6,300.00                                      | 6,224.06            | 10,011.88           | 7,750.15            | 22.98           | 40.44       | 103.85                | 891.23                            | 7,454.13   | 7,787.93             | 7,725.29              | 62.64                   | 124.333           |                    |         |
| 6,400.00                                      | 6,321.89            | 9,997.67            | 7,749.94            | 23.37           | 40.26       | 103.75                | 905.44                            | 7,453.91   | 7,772.75             | 7,709.81              | 62.94                   | 123.493           |                    |         |
| 6,500.00                                      | 6,419.72            | 9,984.03            | 7,749.68            | 23.76           | 40.09       | 103.65                | 919.08                            | 7,453.72   | 7,758.80             | 7,695.56              | 63.25                   | 122.678           |                    |         |
| 6,600.00                                      | 6,517.56            | 9,979.70            | 7,749.59            | 24.14           | 40.04       | 103.62                | 923.40                            | 7,453.65   | 7,746.09             | 7,682.42              | 63.66                   | 121.677           |                    |         |
| 6,700.00                                      | 6,615.39            | 9,939.80            | 7,748.51            | 24.53           | 39.54       | 103.32                | 963.29                            | 7,453.17   | 7,734.60             | 7,670.98              | 63.62                   | 121.572           |                    |         |
| 6,800.00                                      | 6,713.22            | 9,903.91            | 7,747.20            | 24.92           | 39.09       | 103.06                | 999.15                            | 7,452.70   | 7,724.31             | 7,660.69              | 63.63                   | 121.402           |                    |         |
| 6,900.00                                      | 6,811.05            | 9,871.90            | 7,745.77            | 25.30           | 38.69       | 102.83                | 1,031.12                          | 7,452.24   | 7,715.23             | 7,651.56              | 63.67                   | 121.171           |                    |         |
| 7,000.00                                      | 6,908.89            | 9,849.14            | 7,744.73            | 25.69           | 38.41       | 102.66                | 1,053.86                          | 7,451.89   | 7,707.39             | 7,643.56              | 63.83                   | 120.747           |                    |         |
| 7,100.00                                      | 7,006.72            | 9,825.04            | 7,743.73            | 26.08           | 38.12       | 102.48                | 1,077.93                          | 7,451.47   | 7,700.78             | 7,636.82              | 63.97                   | 120.390           |                    |         |
| 7,200.00                                      | 7,104.55            | 9,799.48            | 7,742.80            | 26.47           | 37.80       | 102.29                | 1,103.47                          | 7,450.99   | 7,695.42             | 7,631.35              | 64.07                   | 120.103           |                    |         |
| 7,216.87                                      | 7,121.05            | 9,795.93            | 7,742.74            | 26.53           | 37.75       | 102.27                | 1,107.02                          | 7,450.92   | 7,694.64             | 7,630.54              | 64.10                   | 120.045           |                    |         |
| 7,300.00                                      | 7,202.57            | 9,773.26            | 7,741.98            | 26.85           | 37.48       | 102.05                | 1,129.67                          | 7,450.46   | 7,691.10             | 7,626.94              | 64.16                   | 119.865           |                    |         |
| 7,400.00                                      | 7,301.06            | 9,745.23            | 7,741.43            | 27.23           | 37.14       | 101.79                | 1,157.69                          | 7,449.82   | 7,687.50             | 7,623.27              | 64.22                   | 119.701           |                    |         |
| 7,500.00                                      | 7,399.97            | 9,544.41            | 7,744.75            | 27.61           | 34.72       | 100.27                | 1,358.30                          | 7,441.94   | 7,684.18             | 7,622.05              | 62.13                   | 123.679           |                    |         |
| 7,600.00                                      | 7,499.23            | 9,530.78            | 7,745.43            | 27.98           | 34.56       | 100.13                | 1,371.89                          | 7,441.24   | 7,681.71             | 7,619.37              | 62.34                   | 123.217           |                    |         |
| 7,700.00                                      | 7,598.77            | 9,517.79            | 7,746.20            | 28.34           | 34.41       | 100.01                | 1,384.85                          | 7,440.57   | 7,680.05             | 7,617.50              | 62.55                   | 122.785           |                    |         |
| 7,800.00                                      | 7,698.53            | 9,505.55            | 7,747.03            | 28.70           | 34.26       | 99.91                 | 1,397.04                          | 7,439.94   | 7,679.21             | 7,616.46              | 62.75                   | 122.380           |                    |         |
| 7,850.69                                      | 7,749.16            | 9,499.89            | 7,747.44            | 28.87           | 34.19       | 99.86                 | 1,402.68                          | 7,439.65   | 7,679.10             | 7,616.25              | 62.85                   | 122.182           |                    |         |
| 7,900.00                                      | 7,798.44            | 9,494.22            | 7,747.89            | 29.05           | 34.13       | 99.82                 | 1,408.32                          | 7,439.36   | 7,679.20             | 7,616.26              | 62.95                   | 121.997           |                    |         |
| 8,000.00                                      | 7,898.42            | 9,484.78            | 7,748.63            | 29.39           | 34.02       | 99.76                 | 1,417.72                          | 7,438.87   | 7,680.04             | 7,616.88              | 63.15                   | 121.611           |                    |         |
| 8,013.58                                      | 7,912.00            | 9,483.71            | 7,748.71            | 29.43           | 34.01       | 96.98                 | 1,418.79                          | 7,438.82   | 7,680.22             | 7,617.03              | 63.18                   | 121.557           |                    |         |
| 8,100.00                                      | 7,998.42            | 9,477.10            | 7,749.22            | 29.73           | 33.93       | 86.93                 | 1,425.36                          | 7,438.48   | 7,681.89             | 7,618.52              | 63.37                   | 121.225           |                    |         |
| 8,200.00                                      | 8,098.42            | 9,469.60            | 7,749.80            | 30.07           | 33.84       | 86.87                 | 1,432.84                          | 7,438.09   | 7,685.02             | 7,621.44              | 63.58                   | 120.872           |                    |         |
| 8,300.00                                      | 8,198.42            | 9,462.23            | 7,750.36            | 30.41           | 33.76       | 86.82                 | 1,440.17                          | 7,437.71   | 7,689.45             | 7,625.67              | 63.79                   | 120.552           |                    |         |
| 8,363.62                                      | 8,262.04            | 9,457.62            | 7,750.71            | 30.62           | 33.70       | 86.78                 | 1,444.77                          | 7,437.47   | 7,692.94             | 7,629.03              | 63.91                   | 120.365           |                    |         |
| 8,400.00                                      | 8,298.40            | 9,455.06            | 7,750.90            | 30.75           | 33.67       | -2.89                 | 1,447.32                          | 7,437.34   | 7,694.02             | 7,630.04              | 63.98                   | 120.252           |                    |         |
| 8,450.00                                      | 8,348.10            | 9,451.74            | 7,751.15            | 30.91           | 33.63       | -2.92                 | 1,450.62                          | 7,437.17   | 7,692.02             | 7,627.95              | 64.07                   | 120.051           |                    |         |
| 8,500.00                                      | 8,397.14            | 9,448.70            | 7,751.38            | 31.07           | 33.60       | -2.98                 | 1,453.65                          | 7,437.01   | 7,686.00             | 7,621.83              | 64.16                   | 119.792           |                    |         |
| 8,550.00                                      | 8,445.15            | 9,445.93            | 7,751.58            | 31.23           | 33.57       | -3.05                 | 1,456.41                          | 7,436.87   | 7,675.99             | 7,611.74              | 64.25                   | 119.478           |                    |         |
| 8,600.00                                      | 8,491.77            | 9,443.46            | 7,751.77            | 31.38           | 33.54       | -3.15                 | 1,458.87                          | 7,436.74   | 7,662.06             | 7,597.74              | 64.33                   | 119.113           |                    |         |
| 8,650.00                                      | 8,536.65            | 9,441.30            | 7,751.93            | 31.52           | 33.51       | -3.27                 | 1,461.02                          | 7,436.63   | 7,644.30             | 7,579.90              | 64.40                   | 118.699           |                    |         |
| 8,700.00                                      | 8,579.43            | 9,439.46            | 7,752.06            | 31.66           | 33.49       | -3.43                 | 1,462.85                          | 7,436.54   | 7,622.80             | 7,558.34              | 64.47                   | 118.240           |                    |         |
| 8,750.00                                      | 8,619.80            | 9,437.96            | 7,752.17            | 31.80           | 33.47       | -3.62                 | 1,464.35                          | 7,436.46   | 7,597.72             | 7,533.19              | 64.53                   | 117.739           |                    |         |
| 8,800.00                                      | 8,657.44            | 9,436.79            | 7,752.26            | 31.93           | 33.46       | -3.86                 | 1,465.51                          | 7,436.40   | 7,569.19             | 7,504.61              | 64.58                   | 117.198           |                    |         |
| 8,850.00                                      | 8,692.08            | 9,435.97            | 7,752.32            | 32.06           | 33.45       | -4.15                 | 1,466.33                          | 7,436.36   | 7,537.41             | 7,472.77              | 64.63                   | 116.620           |                    |         |
| 8,900.00                                      | 8,723.44            | 9,435.49            | 7,752.35            | 32.19           | 33.44       | -4.53                 | 1,466.81                          | 7,436.33   | 7,502.56             | 7,437.89              | 64.67                   | 116.008           |                    |         |
| 8,950.00                                      | 8,751.29            | 9,435.36            | 7,752.36            | 32.34           | 33.44       | -5.00                 | 1,466.94                          | 7,436.33   | 7,464.89             | 7,400.18              | 64.71                   | 115.365           |                    |         |
| 9,000.00                                      | 8,775.42            | 9,435.57            | 7,752.35            | 32.50           | 33.45       | -5.63                 | 1,466.73                          | 7,436.34   | 7,424.63             | 7,359.90              | 64.74                   | 114.692           |                    |         |
| 9,050.00                                      | 8,795.64            | 9,436.12            | 7,752.31            | 32.67           | 33.45       | -6.48                 | 1,466.18                          | 7,436.36   | 7,382.05             | 7,317.29              | 64.76                   | 113.993           |                    |         |
| 9,100.00                                      | 8,811.80            | 9,437.00            | 7,752.24            | 32.87           | 33.46       | -7.69                 | 1,465.30                          | 7,436.41   | 7,337.44             | 7,272.66              | 64.78                   | 113.270           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 2922-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,150.00                                      | 8,823.77            | 9,438.21            | 7,752.15            | 33.10           | 33.48       | -9.51                 | 1,464.09                          | 7,436.47   | 7,291.10             | 7,226.30              | 64.79                   | 112.526           |                    |         |
| 9,200.00                                      | 8,831.47            | 9,439.74            | 7,752.04            | 33.34           | 33.49       | -12.56                | 1,462.57                          | 7,436.55   | 7,243.35             | 7,178.54              | 64.81                   | 111.763           |                    |         |
| 9,250.00                                      | 8,834.84            | 9,441.58            | 7,751.90            | 33.60           | 33.52       | -18.57                | 1,460.74                          | 7,436.65   | 7,194.54             | 7,129.72              | 64.83                   | 110.982           |                    |         |
| 9,263.62                                      | 8,835.00            | 9,442.13            | 7,751.86            | 33.67           | 33.52       | -21.34                | 1,460.19                          | 7,436.67   | 7,181.11             | 7,116.28              | 64.83                   | 110.765           |                    |         |
| 9,300.00                                      | 8,835.00            | 9,443.64            | 7,751.75            | 33.88           | 33.54       | -21.26                | 1,458.69                          | 7,436.75   | 7,145.16             | 7,080.32              | 64.84                   | 110.191           |                    |         |
| 9,400.00                                      | 8,835.00            | 9,447.78            | 7,751.45            | 34.53           | 33.59       | -21.05                | 1,454.57                          | 7,436.97   | 7,046.37             | 6,981.49              | 64.87                   | 108.616           |                    |         |
| 9,500.00                                      | 8,835.00            | 9,451.91            | 7,751.14            | 35.30           | 33.64       | -20.85                | 1,450.45                          | 7,437.18   | 6,947.61             | 6,882.70              | 64.91                   | 107.042           |                    |         |
| 9,600.00                                      | 8,835.00            | 9,456.05            | 7,750.83            | 36.17           | 33.68       | -20.64                | 1,446.33                          | 7,437.39   | 6,848.88             | 6,783.94              | 64.94                   | 105.467           |                    |         |
| 9,700.00                                      | 8,835.00            | 9,460.19            | 7,750.52            | 37.13           | 33.73       | -20.43                | 1,442.21                          | 7,437.60   | 6,750.19             | 6,685.22              | 64.97                   | 103.893           |                    |         |
| 9,800.00                                      | 8,835.00            | 9,464.32            | 7,750.20            | 38.18           | 33.78       | -20.23                | 1,438.09                          | 7,437.82   | 6,651.53             | 6,586.53              | 65.01                   | 102.320           |                    |         |
| 9,900.00                                      | 8,835.00            | 9,468.46            | 7,749.89            | 39.31           | 33.83       | -20.02                | 1,433.97                          | 7,438.03   | 6,552.92             | 6,487.87              | 65.04                   | 100.747           |                    |         |
| 10,000.00                                     | 8,835.00            | 9,472.60            | 7,749.57            | 40.51           | 33.88       | -19.81                | 1,429.85                          | 7,438.24   | 6,454.34             | 6,389.26              | 65.08                   | 99.175            |                    |         |
| 10,100.00                                     | 8,835.00            | 9,476.73            | 7,749.25            | 41.78           | 33.92       | -19.60                | 1,425.73                          | 7,438.46   | 6,355.80             | 6,290.68              | 65.12                   | 97.603            |                    |         |
| 10,200.00                                     | 8,835.00            | 9,480.87            | 7,748.93            | 43.10           | 33.97       | -19.39                | 1,421.62                          | 7,438.67   | 6,257.31             | 6,192.15              | 65.16                   | 96.032            |                    |         |
| 10,300.00                                     | 8,835.00            | 9,485.00            | 7,748.61            | 44.49           | 34.02       | -19.18                | 1,417.50                          | 7,438.88   | 6,158.86             | 6,093.66              | 65.20                   | 94.462            |                    |         |
| 10,400.00                                     | 8,835.00            | 9,489.14            | 7,748.29            | 45.92           | 34.07       | -18.97                | 1,413.38                          | 7,439.10   | 6,060.46             | 5,995.22              | 65.24                   | 92.894            |                    |         |
| 10,500.00                                     | 8,835.00            | 9,493.27            | 7,747.96            | 47.39           | 34.12       | -18.76                | 1,409.27                          | 7,439.31   | 5,962.11             | 5,896.83              | 65.28                   | 91.326            |                    |         |
| 10,600.00                                     | 8,835.00            | 9,503.84            | 7,747.15            | 48.91           | 34.24       | -18.22                | 1,398.75                          | 7,439.85   | 5,863.81             | 5,798.41              | 65.40                   | 89.656            |                    |         |
| 10,700.00                                     | 8,835.00            | 9,519.05            | 7,746.12            | 50.47           | 34.42       | -17.44                | 1,383.59                          | 7,440.64   | 5,765.56             | 5,699.98              | 65.58                   | 87.920            |                    |         |
| 10,800.00                                     | 8,835.00            | 9,534.27            | 7,745.25            | 52.06           | 34.60       | -16.65                | 1,368.41                          | 7,441.42   | 5,667.36             | 5,601.61              | 65.75                   | 86.193            |                    |         |
| 10,900.00                                     | 8,835.00            | 10,900.00           | 7,741.95            | 53.68           | 51.24       | -5.66                 | 1,162.37                          | 7,449.60   | 5,569.04             | 5,486.87              | 82.17                   | 67.774            |                    |         |
| 11,000.00                                     | 8,835.00            | 11,000.00           | 7,741.95            | 55.32           | 52.46       | -5.55                 | 1,160.41                          | 7,449.65   | 5,470.83             | 5,387.47              | 83.36                   | 65.626            |                    |         |
| 11,100.00                                     | 8,835.00            | 9,815.09            | 7,743.36            | 57.00           | 37.99       | -1.56                 | 1,087.87                          | 7,451.29   | 5,372.74             | 5,303.66              | 69.08                   | 77.780            |                    |         |
| 11,200.00                                     | 8,835.00            | 9,817.79            | 7,743.46            | 58.70           | 38.03       | -1.41                 | 1,085.17                          | 7,451.34   | 5,274.64             | 5,205.54              | 69.10                   | 76.333            |                    |         |
| 11,300.00                                     | 8,835.00            | 9,820.42            | 7,743.56            | 60.41           | 38.06       | -1.26                 | 1,082.55                          | 7,451.39   | 5,176.62             | 5,107.49              | 69.12                   | 74.888            |                    |         |
| 11,400.00                                     | 8,835.00            | 9,822.97            | 7,743.65            | 62.15           | 38.09       | -1.12                 | 1,079.99                          | 7,451.44   | 5,078.67             | 5,009.52              | 69.15                   | 73.445            |                    |         |
| 11,500.00                                     | 8,835.00            | 9,825.46            | 7,743.75            | 63.91           | 38.12       | -0.98                 | 1,077.51                          | 7,451.48   | 4,980.81             | 4,911.63              | 69.17                   | 72.004            |                    |         |
| 11,600.00                                     | 8,835.00            | 9,827.89            | 7,743.85            | 65.69           | 38.15       | -0.85                 | 1,075.09                          | 7,451.52   | 4,883.03             | 4,813.83              | 69.20                   | 70.566            |                    |         |
| 11,700.00                                     | 8,835.00            | 9,830.25            | 7,743.94            | 67.47           | 38.18       | -0.72                 | 1,072.73                          | 7,451.57   | 4,785.34             | 4,716.12              | 69.22                   | 69.130            |                    |         |
| 11,800.00                                     | 8,835.00            | 9,832.55            | 7,744.03            | 69.28           | 38.21       | -0.59                 | 1,070.43                          | 7,451.61   | 4,687.75             | 4,618.50              | 69.25                   | 67.696            |                    |         |
| 11,900.00                                     | 8,835.00            | 9,834.79            | 7,744.12            | 71.09           | 38.24       | -0.47                 | 1,068.19                          | 7,451.65   | 4,590.26             | 4,520.99              | 69.27                   | 66.264            |                    |         |
| 12,000.00                                     | 8,835.00            | 9,836.98            | 7,744.21            | 72.92           | 38.26       | -0.35                 | 1,066.00                          | 7,451.68   | 4,492.88             | 4,423.59              | 69.30                   | 64.835            |                    |         |
| 12,100.00                                     | 8,835.00            | 9,839.11            | 7,744.30            | 74.76           | 38.29       | -0.23                 | 1,063.87                          | 7,451.72   | 4,395.62             | 4,326.30              | 69.32                   | 63.408            |                    |         |
| 12,200.00                                     | 8,835.00            | 9,841.19            | 7,744.39            | 76.61           | 38.31       | -0.11                 | 1,061.79                          | 7,451.75   | 4,298.49             | 4,229.14              | 69.35                   | 61.983            |                    |         |
| 12,300.00                                     | 8,835.00            | 9,843.23            | 7,744.48            | 78.47           | 38.34       | 0.00                  | 1,059.76                          | 7,451.79   | 4,201.48             | 4,132.11              | 69.38                   | 60.560            |                    |         |
| 12,400.00                                     | 8,835.00            | 9,845.21            | 7,744.56            | 80.34           | 38.36       | 0.11                  | 1,057.78                          | 7,451.82   | 4,104.63             | 4,035.22              | 69.41                   | 59.139            |                    |         |
| 12,500.00                                     | 8,835.00            | 9,847.15            | 7,744.64            | 82.22           | 38.39       | 0.22                  | 1,055.84                          | 7,451.85   | 4,007.92             | 3,938.48              | 69.44                   | 57.721            |                    |         |
| 12,600.00                                     | 8,835.00            | 9,849.04            | 7,744.73            | 84.11           | 38.41       | 0.32                  | 1,053.95                          | 7,451.88   | 3,911.38             | 3,841.91              | 69.47                   | 56.305            |                    |         |
| 12,700.00                                     | 8,835.00            | 9,850.89            | 7,744.81            | 86.00           | 38.43       | 0.43                  | 1,052.11                          | 7,451.92   | 3,815.02             | 3,745.52              | 69.50                   | 54.891            |                    |         |
| 12,800.00                                     | 8,835.00            | 9,852.70            | 7,744.89            | 87.90           | 38.46       | 0.53                  | 1,050.30                          | 7,451.94   | 3,718.85             | 3,649.31              | 69.54                   | 53.480            |                    |         |
| 12,900.00                                     | 8,835.00            | 9,854.46            | 7,744.97            | 89.81           | 38.48       | 0.62                  | 1,048.53                          | 7,451.97   | 3,622.88             | 3,553.31              | 69.58                   | 52.071            |                    |         |
| 13,000.00                                     | 8,835.00            | 9,856.19            | 7,745.04            | 91.72           | 38.50       | 0.72                  | 1,046.81                          | 7,452.00   | 3,527.15             | 3,457.53              | 69.62                   | 50.664            |                    |         |
| 13,100.00                                     | 8,835.00            | 9,857.88            | 7,745.12            | 93.64           | 38.52       | 0.81                  | 1,045.12                          | 7,452.03   | 3,431.65             | 3,361.98              | 69.66                   | 49.260            |                    |         |
| 13,200.00                                     | 8,835.00            | 9,859.54            | 7,745.20            | 95.56           | 38.54       | 0.91                  | 1,043.47                          | 7,452.05   | 3,336.41             | 3,266.70              | 69.71                   | 47.859            |                    |         |
| 13,300.00                                     | 8,835.00            | 9,861.15            | 7,745.27            | 97.49           | 38.56       | 1.00                  | 1,041.85                          | 7,452.08   | 3,241.47             | 3,171.70              | 69.77                   | 46.460            |                    |         |
| 13,400.00                                     | 8,835.00            | 9,862.74            | 7,745.34            | 99.42           | 38.58       | 1.08                  | 1,040.27                          | 7,452.10   | 3,146.83             | 3,077.00              | 69.83                   | 45.065            |                    |         |
| 13,500.00                                     | 8,835.00            | 9,864.29            | 7,745.41            | 101.36          | 38.60       | 1.17                  | 1,038.72                          | 7,452.13   | 3,052.54             | 2,982.64              | 69.90                   | 43.672            |                    |         |
| 13,600.00                                     | 8,835.00            | 9,865.81            | 7,745.49            | 103.30          | 38.62       | 1.25                  | 1,037.20                          | 7,452.15   | 2,958.62             | 2,888.65              | 69.97                   | 42.283            |                    |         |
| 13,700.00                                     | 8,835.00            | 9,867.30            | 7,745.56            | 105.25          | 38.64       | 1.34                  | 1,035.72                          | 7,452.17   | 2,865.11             | 2,795.05              | 70.06                   | 40.897            |                    |         |
| 13,800.00                                     | 8,835.00            | 9,868.75            | 7,745.62            | 107.20          | 38.65       | 1.42                  | 1,034.26                          | 7,452.19   | 2,772.06             | 2,701.90              | 70.15                   | 39.515            |                    |         |
| 13,900.00                                     | 8,835.00            | 9,870.18            | 7,745.69            | 109.15          | 38.67       | 1.50                  | 1,032.84                          | 7,452.22   | 2,679.50             | 2,609.24              | 70.26                   | 38.137            |                    |         |
| 14,000.00                                     | 8,835.00            | 9,871.58            | 7,745.76            | 111.10          | 38.69       | 1.57                  | 1,031.44                          | 7,452.24   | 2,587.50             | 2,517.12              | 70.38                   | 36.763            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               |                      | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 2922-MWD+HDGM |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               |                      | Offset Well Error: | 0.50 ft |
| Reference                                     |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                      |                    | Warning |
| Measured Depth<br>(ft)                        | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor |                    |         |
| 14,100.00                                     | 8,835.00               | 9,872.95               | 7,745.83               | 113.06            | 38.71          | 1.65                        | 1,030.07                                | 7,452.26      | 2,496.11                   | 2,425.59                    | 70.52                         | 35.395               |                    |         |
| 14,200.00                                     | 8,835.00               | 9,874.30               | 7,745.89               | 115.03            | 38.72          | 1.72                        | 1,028.72                                | 7,452.28      | 2,405.41                   | 2,334.73                    | 70.68                         | 34.033               |                    |         |
| 14,300.00                                     | 8,835.00               | 9,875.62               | 7,745.96               | 116.99            | 38.74          | 1.80                        | 1,027.41                                | 7,452.30      | 2,315.48                   | 2,244.62                    | 70.86                         | 32.677               |                    |         |
| 14,400.00                                     | 8,835.00               | 9,876.91               | 7,746.02               | 118.96            | 38.75          | 1.87                        | 1,026.12                                | 7,452.32      | 2,226.40                   | 2,155.33                    | 71.07                         | 31.329               |                    |         |
| 14,500.00                                     | 8,835.00               | 9,878.18               | 7,746.08               | 120.93            | 38.77          | 1.94                        | 1,024.85                                | 7,452.33      | 2,138.29                   | 2,066.99                    | 71.30                         | 29.990               |                    |         |
| 14,600.00                                     | 8,835.00               | 9,879.43               | 7,746.14               | 122.90            | 38.79          | 2.01                        | 1,023.60                                | 7,452.35      | 2,051.26                   | 1,979.69                    | 71.57                         | 28.662               |                    |         |
| 14,700.00                                     | 8,835.00               | 9,880.65               | 7,746.20               | 124.88            | 38.80          | 2.08                        | 1,022.38                                | 7,452.37      | 1,965.47                   | 1,893.60                    | 71.87                         | 27.346               |                    |         |
| 14,800.00                                     | 8,835.00               | 9,881.85               | 7,746.26               | 126.86            | 38.82          | 2.14                        | 1,021.18                                | 7,452.39      | 1,881.09                   | 1,808.87                    | 72.22                         | 26.046               |                    |         |
| 14,900.00                                     | 8,835.00               | 9,883.03               | 7,746.32               | 128.84            | 38.83          | 2.21                        | 1,020.01                                | 7,452.40      | 1,798.31                   | 1,725.69                    | 72.62                         | 24.764               |                    |         |
| 15,000.00                                     | 8,835.00               | 9,884.18               | 7,746.38               | 130.82            | 38.84          | 2.27                        | 1,018.85                                | 7,452.42      | 1,717.36                   | 1,644.29                    | 73.07                         | 23.504               |                    |         |
| 15,100.00                                     | 8,835.00               | 9,885.32               | 7,746.44               | 132.80            | 38.86          | 2.34                        | 1,017.72                                | 7,452.44      | 1,638.51                   | 1,564.94                    | 73.57                         | 22.271               |                    |         |
| 15,200.00                                     | 8,835.00               | 9,886.43               | 7,746.49               | 134.79            | 38.87          | 2.40                        | 1,016.61                                | 7,452.45      | 1,562.09                   | 1,487.95                    | 74.14                         | 21.070               |                    |         |
| 15,300.00                                     | 8,835.00               | 9,887.53               | 7,746.55               | 136.78            | 38.89          | 2.46                        | 1,015.51                                | 7,452.47      | 1,488.46                   | 1,413.70                    | 74.77                         | 19.908               |                    |         |
| 15,400.00                                     | 8,835.00               | 9,888.61               | 7,746.61               | 138.76            | 38.90          | 2.52                        | 1,014.44                                | 7,452.48      | 1,418.07                   | 1,342.61                    | 75.46                         | 18.793               |                    |         |
| 15,500.00                                     | 8,835.00               | 9,889.66               | 7,746.66               | 140.76            | 38.91          | 2.58                        | 1,013.38                                | 7,452.50      | 1,351.41                   | 1,275.20                    | 76.21                         | 17.732               |                    |         |
| 15,600.00                                     | 8,835.00               | 9,890.70               | 7,746.71               | 142.75            | 38.92          | 2.64                        | 1,012.34                                | 7,452.51      | 1,289.08                   | 1,212.06                    | 77.02                         | 16.737               |                    |         |
| 15,700.00                                     | 8,835.00               | 9,891.73               | 7,746.77               | 144.74            | 38.94          | 2.69                        | 1,011.32                                | 7,452.52      | 1,231.71                   | 1,153.84                    | 77.87                         | 15.817               |                    |         |
| 15,800.00                                     | 8,835.00               | 9,892.73               | 7,746.82               | 146.74            | 38.96          | 2.74                        | 1,010.34                                | 7,452.53      | 1,179.84                   | 1,095.33                    | 78.77                         | 14.951               |                    |         |
| 15,900.00                                     | 8,835.00               | 9,893.70               | 7,746.87               | 148.73            | 38.97          | 2.79                        | 1,009.38                                | 7,452.54      | 1,134.91                   | 1,055.33                    | 79.58                         | 14.260               |                    |         |
| 16,000.00                                     | 8,835.00               | 9,894.65               | 7,746.92               | 150.73            | 38.98          | 2.84                        | 1,008.44                                | 7,452.55      | 1,097.01                   | 1,016.48                    | 80.53                         | 13.622               |                    |         |
| 16,100.00                                     | 8,835.00               | 9,895.58               | 7,746.97               | 152.73            | 38.99          | 2.89                        | 1,007.51                                | 7,452.56      | 1,067.16                   | 985.64                      | 81.51                         | 13.092               |                    |         |
| 16,200.00                                     | 8,835.00               | 9,896.49               | 7,747.02               | 154.73            | 38.99          | 2.94                        | 1,006.61                                | 7,452.57      | 1,037.29                   | 956.33                      | 82.55                         | 12.611               |                    |         |
| 16,300.00                                     | 8,835.00               | 9,897.38               | 7,747.07               | 156.73            | 38.99          | 2.99                        | 1,005.72                                | 7,452.58      | 1,007.46                   | 927.02                      | 83.67                         | 12.161               |                    |         |
| 16,373.02                                     | 8,835.00               | 9,898.25               | 7,747.12               | 158.20            | 38.99          | 3.04                        | 1,004.85                                | 7,452.59      | 977.63                     | 897.11                      | 84.52                         | 12.006 CC, ES        |                    |         |
| 16,400.00                                     | 8,835.00               | 9,898.94               | 7,747.17               | 159.74            | 38.99          | 3.09                        | 1,003.99                                | 7,452.60      | 947.75                     | 867.19                      | 85.44                         | 11.844               |                    |         |
| 16,500.00                                     | 8,835.00               | 9,899.61               | 7,747.22               | 161.27            | 38.99          | 3.14                        | 1,003.14                                | 7,452.61      | 917.86                     | 837.26                      | 86.40                         | 11.681 SF            |                    |         |
| 16,600.00                                     | 8,835.00               | 9,899.56               | 7,747.27               | 162.74            | 38.93          | 2.63                        | 1,012.48                                | 7,452.51      | 1,056.32                   | 969.14                      | 87.18                         | 12.117               |                    |         |
| 16,700.00                                     | 8,835.00               | 9,891.22               | 7,746.67               | 164.75            | 38.93          | 2.66                        | 1,011.83                                | 7,452.52      | 1,082.22                   | 994.04                      | 88.18                         | 12.273               |                    |         |
| 16,800.00                                     | 8,835.00               | 9,891.87               | 7,746.70               | 166.76            | 38.94          | 2.70                        | 1,011.18                                | 7,452.53      | 1,116.51                   | 1,027.53                    | 88.98                         | 12.548               |                    |         |
| 16,900.00                                     | 8,835.00               | 9,892.52               | 7,746.72               | 168.77            | 38.95          | 2.74                        | 1,010.53                                | 7,452.54      | 1,158.44                   | 1,068.88                    | 89.56                         | 12.935               |                    |         |
| 17,000.00                                     | 8,835.00               | 9,893.16               | 7,746.75               | 170.77            | 38.96          | 2.77                        | 1,009.88                                | 7,452.55      | 1,207.22                   | 1,117.30                    | 89.92                         | 13.426               |                    |         |
| 17,100.00                                     | 8,835.00               | 9,893.80               | 7,746.78               | 172.78            | 38.97          | 2.81                        | 1,009.24                                | 7,452.56      | 1,262.05                   | 1,171.97                    | 90.08                         | 14.011               |                    |         |
| 17,200.00                                     | 8,835.00               | 9,894.44               | 7,746.81               | 174.79            | 38.97          | 2.84                        | 1,008.61                                | 7,452.57      | 1,322.18                   | 1,232.11                    | 90.07                         | 14.679               |                    |         |
| 17,300.00                                     | 8,835.00               | 9,895.08               | 7,746.84               | 176.81            | 38.98          | 2.88                        | 1,007.97                                | 7,452.58      | 1,386.92                   | 1,296.98                    | 89.94                         | 15.421               |                    |         |
| 17,400.00                                     | 8,835.00               | 9,895.71               | 7,746.86               | 178.82            | 38.99          | 2.91                        | 1,007.34                                | 7,452.59      | 1,455.65                   | 1,365.95                    | 89.71                         | 16.227               |                    |         |
| 17,500.00                                     | 8,835.00               | 9,896.34               | 7,746.89               | 180.83            | 39.00          | 2.95                        | 1,006.71                                | 7,452.60      | 1,527.85                   | 1,438.43                    | 89.41                         | 17.087               |                    |         |
| 17,600.00                                     | 8,835.00               | 9,896.96               | 7,746.92               | 182.84            | 39.01          | 2.98                        | 1,006.09                                | 7,452.60      | 1,603.03                   | 1,513.95                    | 89.08                         | 17.996               |                    |         |
| 17,700.00                                     | 8,835.00               | 9,897.58               | 7,746.94               | 184.86            | 39.01          | 3.02                        | 1,005.47                                | 7,452.61      | 1,680.80                   | 1,592.08                    | 88.72                         | 18.945               |                    |         |
| 17,800.00                                     | 8,835.00               | 9,898.20               | 7,746.97               | 186.87            | 39.02          | 3.05                        | 1,004.85                                | 7,452.62      | 1,760.81                   | 1,672.47                    | 88.35                         | 19.930               |                    |         |
| 17,900.00                                     | 8,835.00               | 9,898.82               | 7,746.99               | 188.89            | 39.03          | 3.09                        | 1,004.23                                | 7,452.63      | 1,842.78                   | 1,754.80                    | 87.98                         | 20.946               |                    |         |
| 18,000.00                                     | 8,835.00               | 9,899.43               | 7,747.02               | 190.91            | 39.04          | 3.12                        | 1,003.62                                | 7,452.64      | 1,926.45                   | 1,838.84                    | 87.62                         | 21.988               |                    |         |
| 18,100.00                                     | 8,835.00               | 9,900.04               | 7,747.05               | 192.92            | 39.04          | 3.15                        | 1,003.01                                | 7,452.65      | 2,011.62                   | 1,924.35                    | 87.26                         | 23.052               |                    |         |
| 18,200.00                                     | 8,835.00               | 9,900.65               | 7,747.07               | 194.94            | 39.05          | 3.19                        | 1,002.41                                | 7,452.66      | 2,098.09                   | 2,011.16                    | 86.93                         | 24.136               |                    |         |
| 18,300.00                                     | 8,835.00               | 9,901.25               | 7,747.10               | 196.96            | 39.06          | 3.22                        | 1,001.80                                | 7,452.66      | 2,185.72                   | 2,099.11                    | 86.61                         | 25.236               |                    |         |
| 18,400.00                                     | 8,835.00               | 9,901.85               | 7,747.12               | 198.98            | 39.07          | 3.25                        | 1,001.20                                | 7,452.67      | 2,274.37                   | 2,188.05                    | 86.31                         | 26.351               |                    |         |
| 18,500.00                                     | 8,835.00               | 9,902.45               | 7,747.14               | 201.00            | 39.07          | 3.29                        | 1,000.61                                | 7,452.68      | 2,363.92                   | 2,277.89                    | 86.03                         | 27.478               |                    |         |
| 18,600.00                                     | 8,835.00               | 9,903.04               | 7,747.17               | 203.02            | 39.08          | 3.32                        | 1,000.01                                | 7,452.69      | 2,454.28                   | 2,368.51                    | 85.77                         | 28.615               |                    |         |
| 18,700.00                                     | 8,835.00               | 9,903.63               | 7,747.19               | 205.04            | 39.09          | 3.35                        | 999.42                                  | 7,452.70      | 2,545.36                   | 2,459.84                    | 85.52                         | 29.762               |                    |         |
| 18,800.00                                     | 8,835.00               | 9,904.22               | 7,747.22               | 207.06            | 39.10          | 3.39                        | 998.84                                  | 7,452.70      | 2,637.09                   | 2,551.79                    | 85.30                         | 30.916               |                    |         |
| 18,900.00                                     | 8,835.00               | 9,904.80               | 7,747.24               | 209.08            | 39.10          | 3.42                        | 998.25                                  | 7,452.71      | 2,729.40                   | 2,644.31                    | 85.09                         | 32.077               |                    |         |
| 19,000.00                                     | 8,835.00               | 9,905.39               | 7,747.26               | 211.10            | 39.11          | 3.45                        | 997.67                                  | 7,452.72      | 2,822.23                   | 2,737.33                    | 84.90                         | 33.243               |                    |         |
| 19,100.00                                     | 8,835.00               | 9,905.97               | 7,747.29               | 213.12            | 39.12          | 3.48                        | 997.09                                  | 7,452.73      | 2,915.54                   | 2,830.82                    | 84.72                         | 34.414               |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

|                                                                        |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            |                           |         |
|------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|-----------------------------------------|---------------|-------------------------|--------------------------|----------------------------|---------------------------|---------|
| <b>Offset Design</b>                                                   |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Site Error:</b> | 5.00 ft |
| Sec 13-T21S-R27E - Lone Tree Draw State 7H - Wellbore #1 - Wellbore #1 |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Well Error:</b> | 0.50 ft |
| Survey Program: 100-GYRO-NS-CT, 2922-MWD+HDGM                          |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            |                           |         |
| Reference                                                              |                        | Offset                 |                        | Semi Major Axis   |                |                          | Distance                                |               |                         |                          |                            |                           | Warning |
| Measured Depth<br>(ft)                                                 | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between Centres<br>(ft) | Between Ellipses<br>(ft) | Minimum Separation<br>(ft) | Separation Factor         |         |
| 19,200.00                                                              | 8,835.00               | 9,906.54               | 7,747.31               | 215.15            | 39.12          | 3.52                     | 996.51                                  | 7,452.74      | 3,009.27                | 2,924.71                 | 84.56                      | 35.588                    |         |
| 19,308.27                                                              | 8,835.00               | 9,907.16               | 7,747.34               | 217.34            | 39.13          | 3.55                     | 995.89                                  | 7,452.75      | 3,111.20                | 3,026.80                 | 84.40                      | 36.864                    |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 80-GYRO-NS-CT, 4361-MWD+HDMG |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                                         | 0.00                | 0.00                | 0.00                | 0.50            | 5.02        | 61.82                 | 3,098.47                          | 5,783.09   | 6,561.05             |                       |                         |                   |                    |         |
| 100.00                                       | 100.00              | 44.15               | 44.15               | 0.52            | 5.03        | 61.82                 | 3,098.46                          | 5,783.11   | 6,560.86             | 6,555.31              | 5.54                    | 1,183.637         |                    |         |
| 200.00                                       | 200.00              | 139.73              | 139.73              | 0.70            | 5.03        | 61.82                 | 3,098.39                          | 5,783.26   | 6,560.96             | 6,555.23              | 5.74                    | 1,143.782         |                    |         |
| 300.00                                       | 300.00              | 235.12              | 235.12              | 0.99            | 5.07        | 61.82                 | 3,098.28                          | 5,783.49   | 6,561.12             | 6,555.07              | 6.05                    | 1,084.034         |                    |         |
| 400.00                                       | 400.00              | 332.24              | 332.24              | 1.31            | 5.12        | 61.82                 | 3,098.14                          | 5,783.82   | 6,561.35             | 6,554.92              | 6.43                    | 1,020.730         |                    |         |
| 500.00                                       | 500.00              | 425.78              | 425.77              | 1.65            | 5.19        | 61.83                 | 3,097.94                          | 5,784.22   | 6,561.63             | 6,554.79              | 6.84                    | 959.655           |                    |         |
| 600.00                                       | 600.00              | 519.62              | 519.61              | 1.99            | 5.28        | 61.83                 | 3,097.68                          | 5,784.79   | 6,562.03             | 6,554.75              | 7.27                    | 902.111           |                    |         |
| 700.00                                       | 700.00              | 610.56              | 610.55              | 2.34            | 5.39        | 61.84                 | 3,097.30                          | 5,785.50   | 6,562.52             | 6,554.79              | 7.73                    | 849.000           |                    |         |
| 800.00                                       | 800.00              | 709.60              | 709.59              | 2.69            | 5.53        | 61.85                 | 3,096.77                          | 5,786.47   | 6,563.13             | 6,554.92              | 8.22                    | 798.807           |                    |         |
| 900.00                                       | 900.00              | 805.23              | 805.20              | 3.04            | 5.68        | 61.86                 | 3,095.91                          | 5,787.58   | 6,563.73             | 6,555.01              | 8.72                    | 752.979           |                    |         |
| 1,000.00                                     | 1,000.00            | 893.68              | 893.64              | 3.40            | 5.83        | 61.87                 | 3,094.99                          | 5,788.81   | 6,564.47             | 6,555.24              | 9.22                    | 711.818           |                    |         |
| 1,100.00                                     | 1,100.00            | 984.35              | 984.29              | 3.75            | 5.99        | 61.88                 | 3,093.88                          | 5,790.34   | 6,565.38             | 6,555.64              | 9.75                    | 673.708           |                    |         |
| 1,200.00                                     | 1,200.00            | 1,087.89            | 1,087.80            | 4.11            | 6.20        | 61.90                 | 3,092.43                          | 5,792.27   | 6,566.36             | 6,556.05              | 10.31                   | 637.046           |                    |         |
| 1,300.00                                     | 1,300.00            | 1,199.53            | 1,199.40            | 4.46            | 6.44        | 61.93                 | 3,090.37                          | 5,794.42   | 6,567.19             | 6,556.29              | 10.90                   | 602.295           |                    |         |
| 1,400.00                                     | 1,400.00            | 1,308.67            | 1,308.48            | 4.82            | 6.69        | 61.96                 | 3,087.61                          | 5,796.72   | 6,567.86             | 6,556.35              | 11.51                   | 570.577           |                    |         |
| 1,500.00                                     | 1,500.00            | 8,298.97            | 4,955.97            | 5.18            | 53.99       | 95.38                 | -517.11                           | 5,495.56   | 6,540.11             | 6,487.52              | 52.59                   | 124.363           |                    |         |
| 1,600.00                                     | 1,600.00            | 8,329.00            | 4,956.38            | 5.53            | 54.40       | 95.69                 | -546.99                           | 5,492.67   | 6,487.24             | 6,433.70              | 53.54                   | 121.174           |                    |         |
| 1,700.00                                     | 1,700.00            | 8,329.00            | 4,956.38            | 5.89            | 54.40       | 95.69                 | -546.99                           | 5,492.67   | 6,435.27             | 6,381.14              | 54.13                   | 118.893           |                    |         |
| 1,800.00                                     | 1,800.00            | 8,329.00            | 4,956.38            | 6.25            | 54.40       | 95.69                 | -546.99                           | 5,492.67   | 6,384.43             | 6,329.71              | 54.72                   | 116.670           |                    |         |
| 1,900.00                                     | 1,900.00            | 8,329.00            | 4,956.38            | 6.61            | 54.40       | 95.69                 | -546.99                           | 5,492.67   | 6,334.77             | 6,279.45              | 55.32                   | 114.507           |                    |         |
| 2,000.00                                     | 2,000.00            | 8,329.00            | 4,956.38            | 6.96            | 54.40       | 95.69                 | -546.99                           | 5,492.67   | 6,286.31             | 6,230.39              | 55.93                   | 112.404           |                    |         |
| 2,100.00                                     | 2,099.99            | 8,329.00            | 4,956.38            | 7.32            | 54.40       | 108.97                | -546.99                           | 5,492.67   | 6,239.33             | 6,182.79              | 56.53                   | 110.368           |                    |         |
| 2,200.00                                     | 2,199.96            | 8,329.00            | 4,956.38            | 7.68            | 54.40       | 109.45                | -546.99                           | 5,492.67   | 6,194.10             | 6,136.96              | 57.14                   | 108.402           |                    |         |
| 2,300.00                                     | 2,299.86            | 8,329.00            | 4,956.38            | 8.04            | 54.40       | 109.90                | -546.99                           | 5,492.67   | 6,150.70             | 6,092.95              | 57.75                   | 106.503           |                    |         |
| 2,400.00                                     | 2,399.68            | 8,298.61            | 4,955.96            | 8.39            | 53.98       | 110.02                | -516.75                           | 5,495.60   | 6,108.92             | 6,050.94              | 57.98                   | 105.363           |                    |         |
| 2,500.00                                     | 2,499.37            | 8,296.69            | 4,955.94            | 8.75            | 53.96       | 110.41                | -514.84                           | 5,495.80   | 6,069.28             | 6,010.71              | 58.57                   | 103.630           |                    |         |
| 2,600.00                                     | 2,598.90            | 8,294.25            | 4,955.90            | 9.11            | 53.92       | 110.76                | -512.41                           | 5,496.05   | 6,031.59             | 5,972.44              | 59.15                   | 101.976           |                    |         |
| 2,700.00                                     | 2,698.26            | 8,291.29            | 4,955.87            | 9.46            | 53.88       | 111.09                | -509.47                           | 5,496.36   | 5,995.91             | 5,936.19              | 59.72                   | 100.401           |                    |         |
| 2,800.00                                     | 2,797.40            | 8,287.82            | 4,955.82            | 9.82            | 53.84       | 111.39                | -506.02                           | 5,496.72   | 5,962.28             | 5,902.00              | 60.28                   | 98.904            |                    |         |
| 2,900.00                                     | 2,896.30            | 8,283.83            | 4,955.77            | 10.18           | 53.78       | 111.66                | -502.05                           | 5,497.15   | 5,930.75             | 5,869.91              | 60.84                   | 97.485            |                    |         |
| 3,000.00                                     | 2,994.93            | 8,279.32            | 4,955.71            | 10.54           | 53.72       | 111.90                | -497.57                           | 5,497.64   | 5,901.35             | 5,839.96              | 61.38                   | 96.143            |                    |         |
| 3,100.00                                     | 3,093.26            | 8,274.31            | 4,955.64            | 10.90           | 53.65       | 112.11                | -492.59                           | 5,498.20   | 5,874.11             | 5,812.20              | 61.91                   | 94.876            |                    |         |
| 3,195.07                                     | 3,186.42            | 8,269.07            | 4,955.57            | 11.24           | 53.58       | 112.29                | -487.38                           | 5,498.79   | 5,850.27             | 5,787.86              | 62.41                   | 93.741            |                    |         |
| 3,200.00                                     | 3,191.25            | 8,268.78            | 4,955.57            | 11.26           | 53.58       | 112.28                | -487.10                           | 5,498.82   | 5,849.09             | 5,786.65              | 62.43                   | 93.684            |                    |         |
| 3,300.00                                     | 3,289.08            | 8,234.00            | 4,955.14            | 11.62           | 53.10       | 111.94                | -452.57                           | 5,503.01   | 5,826.17             | 5,763.60              | 62.57                   | 93.117            |                    |         |
| 3,400.00                                     | 3,386.91            | 8,234.00            | 4,955.14            | 11.98           | 53.10       | 111.94                | -452.57                           | 5,503.01   | 5,804.56             | 5,741.41              | 63.15                   | 91.919            |                    |         |
| 3,500.00                                     | 3,484.74            | 8,234.00            | 4,955.14            | 12.35           | 53.10       | 111.94                | -452.57                           | 5,503.01   | 5,784.59             | 5,720.87              | 63.72                   | 90.779            |                    |         |
| 3,600.00                                     | 3,582.58            | 8,234.00            | 4,955.14            | 12.72           | 53.10       | 111.94                | -452.57                           | 5,503.01   | 5,766.29             | 5,702.00              | 64.29                   | 89.697            |                    |         |
| 3,700.00                                     | 3,680.41            | 8,234.00            | 4,955.14            | 13.09           | 53.10       | 111.94                | -452.57                           | 5,503.01   | 5,749.67             | 5,684.83              | 64.84                   | 88.672            |                    |         |
| 3,800.00                                     | 3,778.24            | 8,234.00            | 4,955.14            | 13.46           | 53.10       | 111.94                | -452.57                           | 5,503.01   | 5,734.75             | 5,669.36              | 65.39                   | 87.703            |                    |         |
| 3,900.00                                     | 3,876.08            | 8,220.87            | 4,954.96            | 13.83           | 52.92       | 111.81                | -439.55                           | 5,504.68   | 5,721.51             | 5,655.76              | 65.75                   | 87.017            |                    |         |
| 4,000.00                                     | 3,973.91            | 8,207.32            | 4,954.74            | 14.21           | 52.74       | 111.67                | -426.12                           | 5,506.43   | 5,709.95             | 5,643.86              | 66.10                   | 86.387            |                    |         |
| 4,100.00                                     | 4,071.74            | 8,194.16            | 4,954.50            | 14.58           | 52.56       | 111.54                | -413.07                           | 5,508.14   | 5,700.09             | 5,633.65              | 66.44                   | 85.797            |                    |         |
| 4,200.00                                     | 4,169.57            | 8,181.36            | 4,954.23            | 14.96           | 52.39       | 111.41                | -400.39                           | 5,509.82   | 5,691.92             | 5,625.15              | 66.77                   | 85.250            |                    |         |
| 4,300.00                                     | 4,267.41            | 8,168.91            | 4,953.95            | 15.33           | 52.22       | 111.29                | -388.05                           | 5,511.47   | 5,685.46             | 5,618.37              | 67.09                   | 84.745            |                    |         |
| 4,400.00                                     | 4,365.24            | 8,156.80            | 4,953.64            | 15.71           | 52.06       | 111.17                | -376.05                           | 5,513.09   | 5,680.72             | 5,613.32              | 67.40                   | 84.282            |                    |         |
| 4,500.00                                     | 4,463.07            | 8,140.00            | 4,953.17            | 16.09           | 51.83       | 111.00                | -359.41                           | 5,515.36   | 5,677.70             | 5,610.07              | 67.64                   | 83.942            |                    |         |
| 4,600.00                                     | 4,560.90            | 8,132.36            | 4,952.94            | 16.47           | 51.73       | 110.93                | -351.85                           | 5,516.39   | 5,676.41             | 5,608.43              | 67.98                   | 83.500            |                    |         |
| 4,625.09                                     | 4,585.45            | 8,128.98            | 4,952.84            | 16.56           | 51.68       | 110.89                | -348.50                           | 5,516.85   | 5,676.35             | 5,608.31              | 68.05                   | 83.420            |                    |         |
| 4,700.00                                     | 4,658.74            | 8,118.85            | 4,952.55            | 16.85           | 51.54       | 110.79                | -338.46                           | 5,518.23   | 5,676.84             | 5,608.61              | 68.23                   | 83.200            |                    |         |
| 4,800.00                                     | 4,756.57            | 8,105.26            | 4,952.16            | 17.23           | 51.36       | 110.66                | -325.01                           | 5,520.09   | 5,678.99             | 5,610.52              | 68.46                   | 82.948            |                    |         |
| 4,900.00                                     | 4,854.40            | 8,091.59            | 4,951.77            | 17.61           | 51.17       | 110.52                | -311.48                           | 5,521.96   | 5,682.86             | 5,614.17              | 68.68                   | 82.741            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 80-GYRO-NS-CT, 4361-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,000.00                                     | 4,952.23            | 8,077.85            | 4,951.39            | 17.99           | 50.99       | 110.38                | -297.87                           | 5,523.86   | 5,688.44             | 5,619.56              | 68.88                   | 82.582            |                    |         |
| 5,100.00                                     | 5,050.07            | 8,064.04            | 4,951.02            | 18.37           | 50.80       | 110.25                | -284.19                           | 5,525.77   | 5,695.74             | 5,626.67              | 69.07                   | 82.468            |                    |         |
| 5,200.00                                     | 5,147.90            | 8,061.55            | 4,950.94            | 18.75           | 50.77       | 110.22                | -281.73                           | 5,526.09   | 5,704.73             | 5,635.35              | 69.38                   | 82.222            |                    |         |
| 5,300.00                                     | 5,245.73            | 8,016.76            | 4,949.77            | 19.14           | 50.16       | 109.78                | -237.38                           | 5,532.29   | 5,715.41             | 5,646.28              | 69.13                   | 82.677            |                    |         |
| 5,400.00                                     | 5,343.56            | 7,972.21            | 4,948.56            | 19.52           | 49.56       | 109.33                | -193.25                           | 5,538.25   | 5,727.69             | 5,658.83              | 68.86                   | 83.175            |                    |         |
| 5,500.00                                     | 5,441.40            | 7,940.49            | 4,947.68            | 19.90           | 49.14       | 109.02                | -161.82                           | 5,542.35   | 5,741.56             | 5,672.81              | 68.75                   | 83.513            |                    |         |
| 5,600.00                                     | 5,539.23            | 7,921.34            | 4,947.16            | 20.29           | 48.88       | 108.83                | -142.83                           | 5,544.81   | 5,757.07             | 5,688.29              | 68.79                   | 83.693            |                    |         |
| 5,700.00                                     | 5,637.06            | 7,902.02            | 4,946.65            | 20.67           | 48.62       | 108.64                | -123.67                           | 5,547.29   | 5,774.22             | 5,705.41              | 68.81                   | 83.918            |                    |         |
| 5,800.00                                     | 5,734.90            | 7,882.53            | 4,946.14            | 21.05           | 48.36       | 108.44                | -104.35                           | 5,549.78   | 5,792.99             | 5,724.17              | 68.81                   | 84.186            |                    |         |
| 5,900.00                                     | 5,832.73            | 7,863.00            | 4,944.76            | 21.44           | 21.98       | 107.90                | -50.51                            | 5,556.51   | 5,813.29             | 5,770.40              | 42.90                   | 135.523           |                    |         |
| 6,000.00                                     | 5,930.56            | 7,818.12            | 4,944.53            | 21.83           | 47.49       | 107.80                | -40.47                            | 5,557.87   | 5,835.28             | 5,766.84              | 68.45                   | 85.254            |                    |         |
| 6,100.00                                     | 6,028.39            | 7,760.99            | 4,943.00            | 22.21           | 46.73       | 107.24                | 16.24                             | 5,564.65   | 5,858.68             | 5,790.76              | 67.92                   | 86.259            |                    |         |
| 6,200.00                                     | 6,126.23            | 7,737.74            | 4,942.36            | 22.60           | 46.42       | 107.01                | 39.32                             | 5,567.31   | 5,883.56             | 5,815.74              | 67.82                   | 86.750            |                    |         |
| 6,300.00                                     | 6,224.06            | 7,714.13            | 4,941.75            | 22.98           | 46.10       | 106.77                | 62.77                             | 5,569.99   | 5,909.97             | 5,842.26              | 67.71                   | 87.287            |                    |         |
| 6,400.00                                     | 6,321.89            | 7,690.14            | 4,941.16            | 23.37           | 45.78       | 106.53                | 86.61                             | 5,572.69   | 5,937.88             | 5,870.30              | 67.58                   | 87.869            |                    |         |
| 6,500.00                                     | 6,419.72            | 7,664.88            | 4,940.57            | 23.76           | 45.44       | 106.28                | 111.70                            | 5,575.52   | 5,967.26             | 5,899.84              | 67.42                   | 88.512            |                    |         |
| 6,600.00                                     | 6,517.56            | 7,622.70            | 4,939.65            | 24.14           | 44.88       | 105.87                | 153.61                            | 5,580.13   | 5,998.06             | 5,931.03              | 67.03                   | 89.479            |                    |         |
| 6,700.00                                     | 6,615.39            | 7,579.65            | 4,938.78            | 24.53           | 44.31       | 105.44                | 196.41                            | 5,584.67   | 6,030.25             | 5,963.62              | 66.63                   | 90.506            |                    |         |
| 6,800.00                                     | 6,713.22            | 7,572.00            | 4,938.63            | 24.92           | 44.20       | 105.36                | 204.02                            | 5,585.46   | 6,063.83             | 5,997.16              | 66.67                   | 90.959            |                    |         |
| 6,900.00                                     | 6,811.05            | 7,554.50            | 4,938.33            | 25.30           | 43.97       | 105.19                | 221.43                            | 5,587.29   | 6,098.81             | 6,032.24              | 66.57                   | 91.617            |                    |         |
| 7,000.00                                     | 6,908.89            | 7,544.57            | 4,938.19            | 25.69           | 43.84       | 105.09                | 231.29                            | 5,588.36   | 6,135.21             | 6,068.65              | 66.56                   | 92.179            |                    |         |
| 7,100.00                                     | 7,006.72            | 7,534.41            | 4,938.08            | 26.08           | 43.71       | 104.99                | 241.39                            | 5,589.48   | 6,172.98             | 6,106.44              | 66.53                   | 92.778            |                    |         |
| 7,200.00                                     | 7,104.55            | 7,524.00            | 4,937.98            | 26.47           | 43.57       | 104.89                | 251.74                            | 5,590.64   | 6,212.10             | 6,145.60              | 66.50                   | 93.415            |                    |         |
| 7,216.87                                     | 7,121.05            | 7,522.22            | 4,937.97            | 26.53           | 43.54       | 104.87                | 253.51                            | 5,590.85   | 6,218.83             | 6,152.34              | 66.49                   | 93.526            |                    |         |
| 7,300.00                                     | 7,202.57            | 7,513.81            | 4,937.92            | 26.85           | 43.43       | 105.32                | 261.86                            | 5,591.81   | 6,252.33             | 6,185.87              | 66.46                   | 94.080            |                    |         |
| 7,400.00                                     | 7,301.06            | 7,504.73            | 4,937.88            | 27.23           | 43.31       | 105.88                | 270.88                            | 5,592.87   | 6,293.25             | 6,226.83              | 66.42                   | 94.755            |                    |         |
| 7,500.00                                     | 7,399.97            | 7,496.83            | 4,937.86            | 27.61           | 43.21       | 106.46                | 278.72                            | 5,593.80   | 6,334.81             | 6,268.43              | 66.38                   | 95.439            |                    |         |
| 7,600.00                                     | 7,499.23            | 7,477.00            | 4,937.88            | 27.98           | 42.95       | 106.93                | 298.41                            | 5,596.21   | 6,377.01             | 6,310.83              | 66.18                   | 96.362            |                    |         |
| 7,700.00                                     | 7,598.77            | 7,700.00            | 4,938.62            | 28.34           | 45.88       | 107.23                | 336.32                            | 5,600.87   | 6,419.64             | 6,350.65              | 68.99                   | 93.047            |                    |         |
| 7,800.00                                     | 7,698.53            | 7,800.00            | 4,938.78            | 28.70           | 47.20       | 107.84                | 344.66                            | 5,601.89   | 6,462.88             | 6,392.64              | 70.24                   | 92.009            |                    |         |
| 7,900.00                                     | 7,798.44            | 7,900.00            | 4,938.89            | 29.05           | 48.52       | 108.47                | 350.56                            | 5,602.61   | 6,506.65             | 6,435.18              | 71.47                   | 91.044            |                    |         |
| 8,000.00                                     | 7,898.42            | 7,362.94            | 4,940.36            | 29.39           | 41.45       | 108.57                | 411.59                            | 5,610.06   | 6,550.99             | 6,486.11              | 64.88                   | 100.965           |                    |         |
| 8,013.58                                     | 7,912.00            | 7,362.40            | 4,940.38            | 29.43           | 41.44       | 95.88                 | 412.12                            | 5,610.13   | 6,557.04             | 6,492.16              | 64.88                   | 101.069           |                    |         |
| 8,100.00                                     | 7,998.42            | 7,359.18            | 4,940.48            | 29.73           | 41.40       | 95.85                 | 415.32                            | 5,610.51   | 6,595.97             | 6,531.14              | 64.83                   | 101.737           |                    |         |
| 8,200.00                                     | 8,098.42            | 7,355.51            | 4,940.60            | 30.07           | 41.35       | 95.82                 | 418.96                            | 5,610.95   | 6,642.14             | 6,577.36              | 64.78                   | 102.534           |                    |         |
| 8,300.00                                     | 8,198.42            | 7,351.90            | 4,940.72            | 30.41           | 41.30       | 95.78                 | 422.55                            | 5,611.38   | 6,689.49             | 6,624.77              | 64.72                   | 103.354           |                    |         |
| 8,363.62                                     | 8,262.04            | 7,349.63            | 4,940.80            | 30.62           | 41.27       | 95.76                 | 424.80                            | 5,611.64   | 6,720.21             | 6,655.52              | 64.69                   | 103.888           |                    |         |
| 8,400.00                                     | 8,298.40            | 7,348.19            | 4,940.84            | 30.75           | 41.25       | 95.89                 | 426.23                            | 5,611.81   | 6,736.97             | 6,672.31              | 64.66                   | 104.195           |                    |         |
| 8,450.00                                     | 8,348.10            | 7,345.73            | 4,940.92            | 30.91           | 41.22       | 95.65                 | 428.67                            | 5,612.11   | 6,756.88             | 6,692.28              | 64.60                   | 104.596           |                    |         |
| 8,500.00                                     | 8,397.14            | 7,342.73            | 4,941.02            | 31.07           | 41.18       | 95.46                 | 431.64                            | 5,612.46   | 6,773.07             | 6,708.54              | 64.53                   | 104.963           |                    |         |
| 8,550.00                                     | 8,445.15            | 7,339.24            | 4,941.13            | 31.23           | 41.14       | 95.31                 | 435.11                            | 5,612.87   | 6,785.43             | 6,720.99              | 64.44                   | 105.295           |                    |         |
| 8,600.00                                     | 8,491.77            | 7,335.28            | 4,941.26            | 31.38           | 41.08       | 95.19                 | 439.04                            | 5,613.34   | 6,793.89             | 6,729.55              | 64.34                   | 105.590           |                    |         |
| 8,650.00                                     | 8,536.65            | 7,330.89            | 4,941.39            | 31.52           | 41.03       | 95.12                 | 443.40                            | 5,613.85   | 6,798.41             | 6,734.18              | 64.23                   | 105.847           |                    |         |
| 8,700.00                                     | 8,579.43            | 7,326.11            | 4,941.54            | 31.66           | 40.96       | 95.07                 | 448.14                            | 5,614.41   | 6,798.96             | 6,734.85              | 64.10                   | 106.067           |                    |         |
| 8,750.00                                     | 8,619.80            | 7,320.99            | 4,941.70            | 31.80           | 40.90       | 95.06                 | 453.23                            | 5,615.01   | 6,795.52             | 6,731.56              | 63.96                   | 106.247           |                    |         |
| 8,800.00                                     | 8,657.44            | 7,315.56            | 4,941.86            | 31.93           | 40.83       | 95.08                 | 458.61                            | 5,615.64   | 6,788.13             | 6,724.32              | 63.81                   | 106.386           |                    |         |
| 8,850.00                                     | 8,692.08            | 7,309.88            | 4,942.03            | 32.06           | 40.75       | 95.13                 | 464.25                            | 5,616.30   | 6,776.81             | 6,713.17              | 63.64                   | 106.482           |                    |         |
| 8,900.00                                     | 8,723.44            | 7,303.99            | 4,942.21            | 32.19           | 40.67       | 95.22                 | 470.10                            | 5,616.99   | 6,761.65             | 6,698.18              | 63.47                   | 106.534           |                    |         |
| 8,950.00                                     | 8,751.29            | 7,299.27            | 4,942.35            | 32.34           | 40.61       | 95.37                 | 474.79                            | 5,617.53   | 6,742.73             | 6,679.43              | 63.30                   | 106.517           |                    |         |
| 9,000.00                                     | 8,775.42            | 7,292.34            | 4,942.54            | 32.50           | 40.52       | 95.55                 | 481.67                            | 5,618.33   | 6,720.16             | 6,657.05              | 63.11                   | 106.489           |                    |         |
| 9,050.00                                     | 8,795.64            | 7,285.30            | 4,942.74            | 32.67           | 40.43       | 95.78                 | 488.66                            | 5,619.14   | 6,694.08             | 6,631.17              | 62.91                   | 106.414           |                    |         |
| 9,100.00                                     | 8,811.80            | 7,278.20            | 4,942.94            | 32.87           | 40.34       | 96.08                 | 495.71                            | 5,619.96   | 6,664.64             | 6,601.94              | 62.70                   | 106.289           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 80-GYRO-NS-CT, 4361-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,150.00                                     | 8,823.77            | 7,271.10            | 4,943.13            | 33.10           | 40.24       | 6.47                  | 502.76                            | 5,620.77   | 6,632.03             | 6,569.53              | 62.50                   | 106.113           |                    |         |
| 9,200.00                                     | 8,831.47            | 7,264.05            | 4,943.33            | 33.34           | 40.15       | 6.98                  | 509.76                            | 5,621.57   | 6,596.44             | 6,534.14              | 62.30                   | 105.885           |                    |         |
| 9,250.00                                     | 8,834.84            | 7,257.10            | 4,943.52            | 33.60           | 40.06       | 7.65                  | 516.67                            | 5,622.37   | 6,558.11             | 6,496.01              | 62.10                   | 105.604           |                    |         |
| 9,263.62                                     | 8,835.00            | 7,255.23            | 4,943.57            | 33.67           | 40.04       | 7.86                  | 518.52                            | 5,622.58   | 6,547.22             | 6,485.17              | 62.05                   | 105.513           |                    |         |
| 9,300.00                                     | 8,835.00            | 7,250.26            | 4,943.70            | 33.88           | 39.97       | 7.79                  | 523.46                            | 5,623.14   | 6,517.94             | 6,456.03              | 61.91                   | 105.288           |                    |         |
| 9,400.00                                     | 8,835.00            | 7,236.68            | 4,944.07            | 34.53           | 39.80       | 7.60                  | 536.95                            | 5,624.68   | 6,437.79             | 6,376.29              | 61.51                   | 104.666           |                    |         |
| 9,500.00                                     | 8,835.00            | 7,223.21            | 4,944.43            | 35.30           | 39.62       | 7.40                  | 550.33                            | 5,626.20   | 6,358.19             | 6,297.07              | 61.11                   | 104.037           |                    |         |
| 9,600.00                                     | 8,835.00            | 7,209.85            | 4,944.79            | 36.17           | 39.45       | 7.21                  | 563.59                            | 5,627.70   | 6,279.14             | 6,218.41              | 60.73                   | 103.399           |                    |         |
| 9,700.00                                     | 8,835.00            | 7,197.15            | 4,945.12            | 37.13           | 39.28       | 7.02                  | 576.21                            | 5,629.12   | 6,200.67             | 6,140.32              | 60.35                   | 102.743           |                    |         |
| 9,800.00                                     | 8,835.00            | 7,182.27            | 4,945.50            | 38.18           | 39.09       | 6.80                  | 590.99                            | 5,630.77   | 6,122.81             | 6,062.85              | 59.96                   | 102.117           |                    |         |
| 9,900.00                                     | 8,835.00            | 7,168.18            | 4,945.81            | 39.31           | 38.90       | 6.60                  | 604.99                            | 5,632.28   | 6,045.56             | 5,985.98              | 59.58                   | 101.468           |                    |         |
| 10,000.00                                    | 8,835.00            | 7,154.83            | 4,946.07            | 40.51           | 38.73       | 6.40                  | 618.27                            | 5,633.68   | 5,968.97             | 5,909.75              | 59.22                   | 100.798           |                    |         |
| 10,100.00                                    | 8,835.00            | 7,142.16            | 4,946.28            | 41.78           | 38.57       | 6.22                  | 630.88                            | 5,634.97   | 5,893.05             | 5,834.19              | 58.87                   | 100.106           |                    |         |
| 10,200.00                                    | 8,835.00            | 7,130.12            | 4,946.44            | 43.10           | 38.41       | 6.04                  | 642.86                            | 5,636.16   | 5,817.84             | 5,759.31              | 58.53                   | 99.393            |                    |         |
| 10,300.00                                    | 8,835.00            | 7,118.65            | 4,946.57            | 44.49           | 38.26       | 5.87                  | 654.27                            | 5,637.26   | 5,743.37             | 5,685.15              | 58.21                   | 98.659            |                    |         |
| 10,400.00                                    | 8,835.00            | 7,107.96            | 4,946.67            | 45.92           | 38.12       | 5.72                  | 664.91                            | 5,638.28   | 5,669.66             | 5,611.75              | 57.91                   | 97.900            |                    |         |
| 10,500.00                                    | 8,835.00            | 7,097.30            | 4,946.73            | 47.39           | 37.98       | 5.56                  | 675.53                            | 5,639.25   | 5,596.75             | 5,539.12              | 57.62                   | 97.127            |                    |         |
| 10,600.00                                    | 8,835.00            | 7,086.80            | 4,946.78            | 48.91           | 37.85       | 5.41                  | 685.99                            | 5,640.19   | 5,524.66             | 5,467.32              | 57.35                   | 96.337            |                    |         |
| 10,700.00                                    | 8,835.00            | 7,076.47            | 4,946.83            | 50.47           | 37.72       | 5.25                  | 696.28                            | 5,641.12   | 5,453.45             | 5,396.36              | 57.09                   | 95.531            |                    |         |
| 10,800.00                                    | 8,835.00            | 7,066.29            | 4,946.86            | 52.06           | 37.58       | 5.10                  | 706.41                            | 5,642.02   | 5,383.12             | 5,326.28              | 56.84                   | 94.707            |                    |         |
| 10,900.00                                    | 8,835.00            | 7,056.28            | 4,946.90            | 53.68           | 37.45       | 4.96                  | 716.38                            | 5,642.90   | 5,313.73             | 5,257.12              | 56.61                   | 93.865            |                    |         |
| 11,000.00                                    | 8,835.00            | 7,046.42            | 4,946.92            | 55.32           | 37.33       | 4.81                  | 726.20                            | 5,643.76   | 5,245.32             | 5,188.92              | 56.40                   | 93.004            |                    |         |
| 11,100.00                                    | 8,835.00            | 7,036.72            | 4,946.94            | 57.00           | 37.20       | 4.67                  | 735.88                            | 5,644.60   | 5,177.91             | 5,121.70              | 56.21                   | 92.124            |                    |         |
| 11,200.00                                    | 8,835.00            | 7,027.16            | 4,946.96            | 58.70           | 37.08       | 4.53                  | 745.40                            | 5,645.42   | 5,111.55             | 5,055.52              | 56.03                   | 91.225            |                    |         |
| 11,300.00                                    | 8,835.00            | 7,017.74            | 4,946.97            | 60.41           | 36.96       | 4.39                  | 754.78                            | 5,646.22   | 5,046.28             | 4,990.40              | 55.88                   | 90.306            |                    |         |
| 11,400.00                                    | 8,835.00            | 7,008.46            | 4,946.97            | 62.15           | 36.84       | 4.25                  | 764.02                            | 5,647.00   | 4,982.15             | 4,926.40              | 55.75                   | 89.368            |                    |         |
| 11,500.00                                    | 8,835.00            | 6,999.63            | 4,946.97            | 63.91           | 36.72       | 4.12                  | 772.83                            | 5,647.74   | 4,919.20             | 4,863.56              | 55.64                   | 88.405            |                    |         |
| 11,600.00                                    | 8,835.00            | 6,991.17            | 4,946.98            | 65.69           | 36.62       | 3.99                  | 781.26                            | 5,648.46   | 4,857.48             | 4,801.91              | 55.56                   | 87.420            |                    |         |
| 11,700.00                                    | 8,835.00            | 6,982.56            | 4,946.99            | 67.47           | 36.51       | 3.87                  | 789.84                            | 5,649.19   | 4,797.03             | 4,741.52              | 55.51                   | 86.421            |                    |         |
| 11,800.00                                    | 8,835.00            | 6,973.80            | 4,947.00            | 69.28           | 36.39       | 3.74                  | 798.57                            | 5,649.95   | 4,737.90             | 4,682.43              | 55.47                   | 85.408            |                    |         |
| 11,900.00                                    | 8,835.00            | 6,964.88            | 4,947.01            | 71.09           | 36.28       | 3.60                  | 807.45                            | 5,650.72   | 4,680.15             | 4,624.69              | 55.46                   | 84.384            |                    |         |
| 12,000.00                                    | 8,835.00            | 6,955.80            | 4,947.04            | 72.92           | 36.16       | 3.47                  | 816.49                            | 5,651.51   | 4,623.82             | 4,568.34              | 55.48                   | 83.348            |                    |         |
| 12,100.00                                    | 8,835.00            | 6,946.56            | 4,947.06            | 74.76           | 36.04       | 3.33                  | 825.70                            | 5,652.33   | 4,568.97             | 4,513.45              | 55.51                   | 82.302            |                    |         |
| 12,200.00                                    | 8,835.00            | 6,937.14            | 4,947.09            | 76.61           | 35.92       | 3.19                  | 835.08                            | 5,653.17   | 4,515.64             | 4,460.06              | 55.58                   | 81.247            |                    |         |
| 12,300.00                                    | 8,835.00            | 6,927.56            | 4,947.13            | 78.47           | 35.80       | 3.05                  | 844.62                            | 5,654.04   | 4,463.90             | 4,408.23              | 55.67                   | 80.186            |                    |         |
| 12,400.00                                    | 8,835.00            | 6,917.79            | 4,947.18            | 80.34           | 35.68       | 2.91                  | 854.35                            | 5,654.93   | 4,413.79             | 4,358.01              | 55.79                   | 79.120            |                    |         |
| 12,500.00                                    | 8,835.00            | 6,909.00            | 4,947.22            | 82.22           | 35.56       | 2.78                  | 863.10                            | 5,655.74   | 4,365.38             | 4,309.44              | 55.94                   | 78.036            |                    |         |
| 12,600.00                                    | 8,835.00            | 6,900.18            | 4,947.26            | 84.11           | 35.45       | 2.64                  | 871.89                            | 5,656.55   | 4,318.73             | 4,262.60              | 56.12                   | 76.950            |                    |         |
| 12,700.00                                    | 8,835.00            | 6,892.34            | 4,947.29            | 86.00           | 35.35       | 2.53                  | 879.69                            | 5,657.27   | 4,273.88             | 4,217.54              | 56.34                   | 75.852            |                    |         |
| 12,800.00                                    | 8,835.00            | 6,884.58            | 4,947.32            | 87.90           | 35.25       | 2.41                  | 887.42                            | 5,657.98   | 4,230.91             | 4,174.31              | 56.60                   | 74.757            |                    |         |
| 12,900.00                                    | 8,835.00            | 6,876.88            | 4,947.34            | 89.81           | 35.15       | 2.30                  | 895.09                            | 5,658.67   | 4,189.86             | 4,132.99              | 56.88                   | 73.667            |                    |         |
| 13,000.00                                    | 8,835.00            | 6,869.25            | 4,947.36            | 91.72           | 35.06       | 2.19                  | 902.69                            | 5,659.36   | 4,150.81             | 4,093.62              | 57.19                   | 72.584            |                    |         |
| 13,100.00                                    | 8,835.00            | 6,861.68            | 4,947.36            | 93.64           | 34.96       | 2.07                  | 910.23                            | 5,660.05   | 4,113.79             | 4,056.26              | 57.53                   | 71.511            |                    |         |
| 13,200.00                                    | 8,835.00            | 6,854.18            | 4,947.37            | 95.56           | 34.87       | 1.96                  | 917.70                            | 5,660.72   | 4,078.87             | 4,020.97              | 57.90                   | 70.451            |                    |         |
| 13,300.00                                    | 8,835.00            | 6,846.74            | 4,947.37            | 97.49           | 34.77       | 1.85                  | 925.10                            | 5,661.38   | 4,046.11             | 3,987.81              | 58.30                   | 69.405            |                    |         |
| 13,400.00                                    | 8,835.00            | 6,839.37            | 4,947.36            | 99.42           | 34.68       | 1.74                  | 932.45                            | 5,662.03   | 4,015.55             | 3,956.82              | 58.73                   | 68.376            |                    |         |
| 13,500.00                                    | 8,835.00            | 6,832.06            | 4,947.35            | 101.36          | 34.59       | 1.63                  | 939.73                            | 5,662.68   | 3,987.25             | 3,928.06              | 59.19                   | 67.366            |                    |         |
| 13,600.00                                    | 8,835.00            | 6,824.81            | 4,947.34            | 103.30          | 34.49       | 1.53                  | 946.95                            | 5,663.32   | 3,961.25             | 3,901.57              | 59.68                   | 66.378            |                    |         |
| 13,700.00                                    | 8,835.00            | 6,821.00            | 4,947.33            | 105.25          | 34.44       | 1.47                  | 950.75                            | 5,663.65   | 3,937.61             | 3,877.38              | 60.22                   | 65.386            |                    |         |
| 13,800.00                                    | 8,835.00            | 6,807.32            | 4,947.28            | 107.20          | 34.27       | 1.27                  | 964.37                            | 5,664.84   | 3,916.36             | 3,855.63              | 60.73                   | 64.492            |                    |         |
| 13,900.00                                    | 8,835.00            | 6,794.14            | 4,947.24            | 109.15          | 34.11       | 1.07                  | 977.51                            | 5,665.97   | 3,897.52             | 3,836.26              | 61.27                   | 63.616            |                    |         |
| 14,000.00                                    | 8,835.00            | 6,781.43            | 4,947.22            | 111.10          | 33.95       | 0.88                  | 990.17                            | 5,667.03   | 3,881.15             | 3,819.31              | 61.84                   | 62.760            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 80-GYRO-NS-CT, 4361-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 14,100.00                                    | 8,835.00            | 6,769.18            | 4,947.20            | 113.06          | 33.79       | 0.70                  | 1,002.38                          | 5,668.04   | 3,867.26             | 3,804.81              | 62.45                   | 61.927            |                    |         |
| 14,200.00                                    | 8,835.00            | 6,757.35            | 4,947.19            | 115.03          | 33.64       | 0.52                  | 1,014.17                          | 5,669.00   | 3,855.89             | 3,792.81              | 63.09                   | 61.120            |                    |         |
| 14,300.00                                    | 8,835.00            | 6,745.92            | 4,947.19            | 116.99          | 33.50       | 0.35                  | 1,025.57                          | 5,669.90   | 3,847.06             | 3,783.31              | 63.76                   | 60.340            |                    |         |
| 14,400.00                                    | 8,835.00            | 6,734.87            | 4,947.20            | 118.96          | 33.36       | 0.19                  | 1,036.58                          | 5,670.76   | 3,840.80             | 3,776.34              | 64.45                   | 59.589            |                    |         |
| 14,500.00                                    | 8,835.00            | 6,724.19            | 4,947.21            | 120.93          | 33.23       | 0.03                  | 1,047.23                          | 5,671.57   | 3,837.10             | 3,771.92              | 65.18                   | 58.871            |                    |         |
| 14,592.75                                    | 8,835.00            | 6,719.00            | 4,947.22            | 122.76          | 33.16       | -0.05                 | 1,052.41                          | 5,671.97   | 3,835.98             | 3,770.09              | 65.89                   | 58.215 CC         |                    |         |
| 14,600.00                                    | 8,835.00            | 6,719.00            | 4,947.22            | 122.90          | 33.16       | -0.05                 | 1,052.41                          | 5,671.97   | 3,835.99             | 3,770.04              | 65.95                   | 58.164 ES         |                    |         |
| 14,700.00                                    | 8,835.00            | 6,719.00            | 4,947.22            | 124.88          | 33.16       | -0.05                 | 1,052.41                          | 5,671.97   | 3,837.48             | 3,770.71              | 66.77                   | 57.475            |                    |         |
| 14,800.00                                    | 8,835.00            | 6,706.31            | 4,947.23            | 126.86          | 33.00       | -0.24                 | 1,065.07                          | 5,672.88   | 3,841.54             | 3,774.00              | 67.54                   | 56.878            |                    |         |
| 14,900.00                                    | 8,835.00            | 6,701.73            | 4,947.23            | 128.84          | 32.95       | -0.31                 | 1,069.63                          | 5,673.19   | 3,848.20             | 3,779.84              | 68.36                   | 56.291            |                    |         |
| 15,000.00                                    | 8,835.00            | 6,697.41            | 4,947.23            | 130.82          | 32.89       | -0.37                 | 1,073.94                          | 5,673.48   | 3,857.44             | 3,788.24              | 69.20                   | 55.746            |                    |         |
| 15,100.00                                    | 8,835.00            | 6,693.32            | 4,947.22            | 132.80          | 32.84       | -0.43                 | 1,078.02                          | 5,673.74   | 3,869.23             | 3,799.19              | 70.04                   | 55.245            |                    |         |
| 15,200.00                                    | 8,835.00            | 6,689.44            | 4,947.21            | 134.79          | 32.79       | -0.49                 | 1,081.90                          | 5,673.98   | 3,883.55             | 3,812.67              | 70.88                   | 54.789            |                    |         |
| 15,300.00                                    | 8,835.00            | 6,685.76            | 4,947.21            | 136.78          | 32.75       | -0.54                 | 1,085.57                          | 5,674.20   | 3,900.38             | 3,828.65              | 71.73                   | 54.379            |                    |         |
| 15,400.00                                    | 8,835.00            | 6,682.26            | 4,947.20            | 138.76          | 32.70       | -0.60                 | 1,089.06                          | 5,674.41   | 3,919.68             | 3,847.11              | 72.57                   | 54.015            |                    |         |
| 15,500.00                                    | 8,835.00            | 6,678.93            | 4,947.19            | 140.76          | 32.66       | -0.65                 | 1,092.39                          | 5,674.60   | 3,941.42             | 3,868.02              | 73.40                   | 53.697            |                    |         |
| 15,600.00                                    | 8,835.00            | 6,675.76            | 4,947.17            | 142.75          | 32.62       | -0.69                 | 1,095.56                          | 5,674.77   | 3,965.55             | 3,891.33              | 74.22                   | 53.426            |                    |         |
| 15,700.00                                    | 8,835.00            | 6,672.73            | 4,947.16            | 144.74          | 32.58       | -0.74                 | 1,098.58                          | 5,674.94   | 3,992.05             | 3,917.01              | 75.04                   | 53.202            |                    |         |
| 15,800.00                                    | 8,835.00            | 6,669.84            | 4,947.15            | 146.74          | 32.55       | -0.78                 | 1,101.47                          | 5,675.09   | 4,020.85             | 3,945.02              | 75.83                   | 53.024            |                    |         |
| 15,900.00                                    | 8,835.00            | 6,667.07            | 4,947.14            | 148.73          | 32.51       | -0.82                 | 1,104.23                          | 5,675.23   | 4,051.91             | 3,975.30              | 76.61                   | 52.892            |                    |         |
| 16,000.00                                    | 8,835.00            | 6,664.43            | 4,947.12            | 150.73          | 32.48       | -0.86                 | 1,106.87                          | 5,675.37   | 4,085.18             | 4,007.82              | 77.36                   | 52.805            |                    |         |
| 16,100.00                                    | 8,835.00            | 6,661.90            | 4,947.11            | 152.73          | 32.45       | -0.90                 | 1,109.40                          | 5,675.49   | 4,120.61             | 4,042.51              | 78.10                   | 52.762 SF         |                    |         |
| 16,200.00                                    | 8,835.00            | 6,659.47            | 4,947.09            | 154.73          | 32.42       | -0.94                 | 1,111.82                          | 5,675.61   | 4,158.13             | 4,079.32              | 78.81                   | 52.762            |                    |         |
| 16,300.00                                    | 8,835.00            | 6,657.14            | 4,947.08            | 156.73          | 32.39       | -0.97                 | 1,114.15                          | 5,675.72   | 4,197.70             | 4,118.20              | 79.50                   | 52.804            |                    |         |
| 16,400.00                                    | 8,835.00            | 6,654.90            | 4,947.06            | 158.74          | 32.36       | -1.00                 | 1,116.39                          | 5,675.82   | 4,239.26             | 4,159.10              | 80.16                   | 52.887            |                    |         |
| 16,500.00                                    | 8,835.00            | 6,652.75            | 4,947.05            | 160.74          | 32.33       | -1.04                 | 1,118.54                          | 5,675.92   | 4,282.74             | 4,201.95              | 80.79                   | 53.010            |                    |         |
| 16,600.00                                    | 8,835.00            | 6,650.68            | 4,947.04            | 162.74          | 32.31       | -1.07                 | 1,120.60                          | 5,676.01   | 4,328.10             | 4,246.70              | 81.40                   | 53.171            |                    |         |
| 16,700.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 164.75          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,375.43             | 4,293.56              | 81.88                   | 53.439            |                    |         |
| 16,800.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 166.76          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,424.34             | 4,341.90              | 82.44                   | 53.668            |                    |         |
| 16,900.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 168.77          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,474.94             | 4,391.97              | 82.97                   | 53.932            |                    |         |
| 17,000.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 170.77          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,527.19             | 4,443.70              | 83.48                   | 54.229            |                    |         |
| 17,100.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 172.78          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,581.02             | 4,497.05              | 83.97                   | 54.557            |                    |         |
| 17,200.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 174.79          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,636.39             | 4,551.96              | 84.43                   | 54.916            |                    |         |
| 17,300.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 176.81          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,693.23             | 4,608.37              | 84.86                   | 55.305            |                    |         |
| 17,400.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 178.82          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,751.50             | 4,666.23              | 85.27                   | 55.721            |                    |         |
| 17,500.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 180.83          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,811.14             | 4,725.48              | 85.66                   | 56.164            |                    |         |
| 17,600.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 182.84          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,872.11             | 4,786.08              | 86.03                   | 56.632            |                    |         |
| 17,700.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 184.86          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,934.35             | 4,847.97              | 86.38                   | 57.126            |                    |         |
| 17,800.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 186.87          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,997.81             | 4,911.11              | 86.70                   | 57.642            |                    |         |
| 17,900.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 188.89          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 5,062.46             | 4,975.44              | 87.01                   | 58.181            |                    |         |
| 18,000.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 190.91          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 5,128.24             | 5,040.93              | 87.30                   | 58.741            |                    |         |
| 18,100.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 192.92          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 5,195.11             | 5,107.53              | 87.58                   | 59.321            |                    |         |
| 18,200.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 194.94          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 5,263.03             | 5,175.20              | 87.83                   | 59.921            |                    |         |
| 18,300.00                                    | 8,835.00            | 6,624.05            | 4,946.80            | 196.96          | 31.98       | -1.46                 | 1,147.22                          | 5,677.00   | 5,331.96             | 5,243.89              | 88.07                   | 60.544            |                    |         |
| 18,400.00                                    | 8,835.00            | 6,620.97            | 4,946.77            | 198.98          | 31.94       | -1.51                 | 1,150.29                          | 5,677.09   | 5,401.86             | 5,313.59              | 88.28                   | 61.192            |                    |         |
| 18,500.00                                    | 8,835.00            | 6,617.92            | 4,946.74            | 201.00          | 31.90       | -1.55                 | 1,153.34                          | 5,677.19   | 5,472.70             | 5,384.23              | 88.47                   | 61.858            |                    |         |
| 18,600.00                                    | 8,835.00            | 6,614.89            | 4,946.70            | 203.02          | 31.86       | -1.60                 | 1,156.36                          | 5,677.28   | 5,544.43             | 5,455.78              | 88.65                   | 62.540            |                    |         |
| 18,700.00                                    | 8,835.00            | 6,611.90            | 4,946.67            | 205.04          | 31.83       | -1.64                 | 1,159.36                          | 5,677.37   | 5,617.02             | 5,528.20              | 88.82                   | 63.239            |                    |         |
| 18,800.00                                    | 8,835.00            | 6,608.93            | 4,946.64            | 207.06          | 31.79       | -1.69                 | 1,162.33                          | 5,677.46   | 5,690.45             | 5,601.47              | 88.98                   | 63.952            |                    |         |
| 18,900.00                                    | 8,835.00            | 6,247.00            | 4,947.05            | 209.08          | 27.44       | -7.04                 | 1,523.35                          | 5,699.85   | 5,764.52             | 5,676.29              | 88.23                   | 65.334            |                    |         |
| 19,000.00                                    | 8,835.00            | 6,247.00            | 4,947.05            | 211.10          | 27.44       | -7.04                 | 1,523.35                          | 5,699.85   | 5,839.09             | 5,750.74              | 88.35                   | 66.089            |                    |         |
| 19,100.00                                    | 8,835.00            | 6,247.00            | 4,947.05            | 213.12          | 27.44       | -7.04                 | 1,523.35                          | 5,699.85   | 5,914.42             | 5,825.95              | 88.46                   | 66.857            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw State Com 2H - ST01 - ST01 |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Site Error:</b> | 5.00 ft |
|-----------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|-----------------------------------------|---------------|-------------------------|--------------------------|----------------------------|---------------------------|---------|
| Survey Program: 80-GYRO-NS-CT, 4361-MWD+HDGM                                      |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                         |                        | Offset                 |                        | Semi Major Axis   |                |                          | Distance                                |               |                         |                          |                            |                           | Warning |
| Measured Depth<br>(ft)                                                            | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between Centres<br>(ft) | Between Ellipses<br>(ft) | Minimum Separation<br>(ft) | Separation Factor         |         |
| 19,200.00                                                                         | 8,835.00               | 6,247.00               | 4,947.05               | 215.15            | 27.44          | -7.04                    | 1,523.35                                | 5,699.85      | 5,990.46                | 5,901.89                 | 88.57                      | 67.638                    |         |
| 19,308.27                                                                         | 8,835.00               | 6,247.00               | 4,947.05               | 217.34            | 27.44          | -7.04                    | 1,523.35                                | 5,699.85      | 6,073.58                | 5,984.91                 | 88.67                      | 68.497                    |         |



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 80-GYRO-NS-CT |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                          | 0.00                | 0.00                | 0.00                | 0.50            | 5.02        | 61.82                 | 3,098.47                          | 5,783.09   | 6,561.05             |                       |                         |                   |                    |         |
| 100.00                        | 100.00              | 44.15               | 44.15               | 0.52            | 5.03        | 61.82                 | 3,098.46                          | 5,783.11   | 6,560.86             | 6,555.31              | 5.54                    | 1,183.637         |                    |         |
| 200.00                        | 200.00              | 139.73              | 139.73              | 0.70            | 5.03        | 61.82                 | 3,098.39                          | 5,783.26   | 6,560.96             | 6,555.23              | 5.74                    | 1,143.782         |                    |         |
| 300.00                        | 300.00              | 235.12              | 235.12              | 0.99            | 5.07        | 61.82                 | 3,098.28                          | 5,783.49   | 6,561.12             | 6,555.07              | 6.05                    | 1,084.034         |                    |         |
| 400.00                        | 400.00              | 332.24              | 332.24              | 1.31            | 5.12        | 61.82                 | 3,098.14                          | 5,783.82   | 6,561.35             | 6,554.92              | 6.43                    | 1,020.730         |                    |         |
| 500.00                        | 500.00              | 425.78              | 425.77              | 1.65            | 5.19        | 61.83                 | 3,097.94                          | 5,784.22   | 6,561.63             | 6,554.79              | 6.84                    | 959.655           |                    |         |
| 600.00                        | 600.00              | 519.62              | 519.61              | 1.99            | 5.28        | 61.83                 | 3,097.68                          | 5,784.79   | 6,562.03             | 6,554.75              | 7.27                    | 902.111           |                    |         |
| 700.00                        | 700.00              | 610.56              | 610.55              | 2.34            | 5.39        | 61.84                 | 3,097.30                          | 5,785.50   | 6,562.52             | 6,554.79              | 7.73                    | 849.000           |                    |         |
| 800.00                        | 800.00              | 709.60              | 709.59              | 2.69            | 5.53        | 61.85                 | 3,096.77                          | 5,786.47   | 6,563.13             | 6,554.92              | 8.22                    | 798.807           |                    |         |
| 900.00                        | 900.00              | 805.23              | 805.20              | 3.04            | 5.68        | 61.86                 | 3,095.91                          | 5,787.58   | 6,563.73             | 6,555.01              | 8.72                    | 752.979           |                    |         |
| 1,000.00                      | 1,000.00            | 893.68              | 893.64              | 3.40            | 5.83        | 61.87                 | 3,094.99                          | 5,788.81   | 6,564.47             | 6,555.24              | 9.22                    | 711.818           |                    |         |
| 1,100.00                      | 1,100.00            | 984.35              | 984.29              | 3.75            | 5.99        | 61.88                 | 3,093.88                          | 5,790.34   | 6,565.38             | 6,555.64              | 9.75                    | 673.708           |                    |         |
| 1,200.00                      | 1,200.00            | 1,087.89            | 1,087.80            | 4.11            | 6.20        | 61.90                 | 3,092.43                          | 5,792.27   | 6,566.36             | 6,556.05              | 10.31                   | 637.046           |                    |         |
| 1,300.00                      | 1,300.00            | 1,199.53            | 1,199.40            | 4.46            | 6.44        | 61.93                 | 3,090.37                          | 5,794.42   | 6,567.19             | 6,556.29              | 10.90                   | 602.295           |                    |         |
| 1,400.00                      | 1,400.00            | 1,308.67            | 1,308.48            | 4.82            | 6.69        | 61.96                 | 3,087.61                          | 5,796.72   | 6,567.86             | 6,556.35              | 11.51                   | 570.577           |                    |         |
| 1,500.00                      | 1,500.00            | 1,414.21            | 1,413.95            | 5.18            | 6.95        | 61.99                 | 3,084.42                          | 5,799.09   | 6,568.43             | 6,556.30              | 12.12                   | 541.768           |                    |         |
| 1,600.00                      | 1,600.00            | 1,519.98            | 1,519.65            | 5.53            | 7.21        | 62.02                 | 3,081.38                          | 5,801.27   | 6,568.90             | 6,556.15              | 12.75                   | 515.292           |                    |         |
| 1,700.00                      | 1,700.00            | 1,611.49            | 1,611.12            | 5.89            | 7.45        | 62.05                 | 3,079.21                          | 5,802.88   | 6,569.35             | 6,556.01              | 13.34                   | 492.371           |                    |         |
| 1,800.00                      | 1,800.00            | 1,686.42            | 1,686.03            | 6.25            | 7.65        | 62.06                 | 3,077.80                          | 5,804.33   | 6,570.15             | 6,556.26              | 13.90                   | 472.757           |                    |         |
| 1,900.00                      | 1,900.00            | 1,773.84            | 1,773.42            | 6.61            | 7.89        | 62.08                 | 3,076.50                          | 5,806.11   | 6,571.26             | 6,556.77              | 14.49                   | 453.497           |                    |         |
| 2,000.00                      | 2,000.00            | 1,894.86            | 1,894.42            | 6.96            | 8.22        | 62.10                 | 3,075.26                          | 5,808.10   | 6,572.22             | 6,557.04              | 15.18                   | 432.955           |                    |         |
| 2,100.00                      | 2,099.99            | 1,998.46            | 1,998.01            | 7.32            | 8.51        | 74.89                 | 3,074.49                          | 5,809.44   | 6,572.79             | 6,556.96              | 15.83                   | 415.297           |                    |         |
| 2,200.00                      | 2,199.96            | 2,097.78            | 2,097.31            | 7.68            | 8.79        | 74.92                 | 3,073.83                          | 5,810.61   | 6,572.85             | 6,556.38              | 16.47                   | 399.179           |                    |         |
| 2,300.00                      | 2,299.86            | 2,189.16            | 2,188.68            | 8.04            | 9.06        | 74.97                 | 3,073.03                          | 5,811.92   | 6,572.56             | 6,555.47              | 17.09                   | 384.660           |                    |         |
| 2,400.00                      | 2,399.68            | 2,284.53            | 2,284.04            | 8.39            | 9.34        | 75.04                 | 3,072.15                          | 5,813.40   | 6,571.92             | 6,554.20              | 17.72                   | 370.814           |                    |         |
| 2,500.00                      | 2,499.37            | 2,383.62            | 2,383.11            | 8.75            | 9.63        | 75.13                 | 3,071.25                          | 5,814.96   | 6,570.88             | 6,552.51              | 18.37                   | 357.622           |                    |         |
| 2,600.00                      | 2,598.90            | 2,485.88            | 2,485.36            | 9.11            | 9.94        | 75.24                 | 3,070.48                          | 5,816.48   | 6,569.39             | 6,550.36              | 19.04                   | 345.078           |                    |         |
| 2,700.00                      | 2,698.26            | 2,590.33            | 2,589.79            | 9.46            | 10.26       | 75.37                 | 3,069.83                          | 5,817.88   | 6,567.41             | 6,547.70              | 19.71                   | 333.186           |                    |         |
| 2,800.00                      | 2,797.40            | 2,692.55            | 2,692.00            | 9.82            | 10.57       | 75.51                 | 3,069.12                          | 5,819.21   | 6,564.94             | 6,544.56              | 20.38                   | 322.108           |                    |         |
| 2,900.00                      | 2,896.30            | 2,791.44            | 2,790.88            | 10.18           | 10.88       | 75.68                 | 3,068.42                          | 5,820.48   | 6,562.05             | 6,541.00              | 21.04                   | 311.814           |                    |         |
| 3,000.00                      | 2,994.93            | 2,884.08            | 2,883.51            | 10.54           | 11.17       | 75.85                 | 3,067.65                          | 5,821.76   | 6,558.80             | 6,537.11              | 21.69                   | 302.354           |                    |         |
| 3,100.00                      | 3,093.26            | 2,981.90            | 2,981.32            | 10.90           | 11.47       | 76.05                 | 3,066.81                          | 5,823.21   | 6,555.25             | 6,532.89              | 22.36                   | 293.170           |                    |         |
| 3,195.07                      | 3,186.42            | 3,074.03            | 3,073.43            | 11.24           | 11.76       | 76.25                 | 3,066.19                          | 5,824.47   | 6,551.52             | 6,528.53              | 22.99                   | 284.915           |                    |         |
| 3,200.00                      | 3,191.25            | 3,078.71            | 3,078.11            | 11.26           | 11.78       | 76.26                 | 3,066.16                          | 5,824.53   | 6,551.32             | 6,528.29              | 23.03                   | 284.502           |                    |         |
| 3,300.00                      | 3,289.08            | 3,163.90            | 3,163.30            | 11.62           | 12.05       | 76.42                 | 3,065.70                          | 5,825.73   | 6,547.36             | 6,523.70              | 23.66                   | 276.713           |                    |         |
| 3,400.00                      | 3,386.91            | 3,243.19            | 3,242.57            | 11.98           | 12.30       | 76.56                 | 3,065.38                          | 5,827.00   | 6,543.71             | 6,519.43              | 24.28                   | 269.520           |                    |         |
| 3,500.00                      | 3,484.74            | 3,327.36            | 3,326.73            | 12.35           | 12.57       | 76.72                 | 3,065.21                          | 5,828.55   | 6,540.41             | 6,515.49              | 24.92                   | 262.505           |                    |         |
| 3,600.00                      | 3,582.58            | 3,436.53            | 3,435.89            | 12.72           | 12.92       | 76.92                 | 3,065.29                          | 5,830.45   | 6,537.22             | 6,511.58              | 25.63                   | 255.014           |                    |         |
| 3,700.00                      | 3,680.41            | 3,546.59            | 3,545.93            | 13.09           | 13.28       | 77.12                 | 3,065.61                          | 5,831.89   | 6,533.80             | 6,507.44              | 26.36                   | 247.874           |                    |         |
| 3,800.00                      | 3,778.24            | 3,647.98            | 3,647.32            | 13.46           | 13.60       | 77.30                 | 3,066.06                          | 5,833.07   | 6,530.39             | 6,503.33              | 27.06                   | 241.343           |                    |         |
| 3,900.00                      | 3,876.08            | 3,742.55            | 3,741.88            | 13.83           | 13.91       | 77.46                 | 3,066.75                          | 5,834.03   | 6,527.02             | 6,499.28              | 27.74                   | 235.311           |                    |         |
| 4,000.00                      | 3,973.91            | 3,841.61            | 3,840.93            | 14.21           | 14.23       | 77.63                 | 3,067.74                          | 5,834.94   | 6,523.75             | 6,495.31              | 28.43                   | 229.436           |                    |         |
| 4,100.00                      | 4,071.74            | 3,941.81            | 3,941.12            | 14.58           | 14.56       | 77.81                 | 3,068.79                          | 5,835.81   | 6,520.50             | 6,491.36              | 29.14                   | 223.796           |                    |         |
| 4,200.00                      | 4,169.57            | 4,061.03            | 4,060.34            | 14.96           | 14.95       | 78.01                 | 3,069.89                          | 5,836.69   | 6,517.16             | 6,487.25              | 29.90                   | 217.949           |                    |         |
| 4,300.00                      | 4,267.41            | 4,159.66            | 4,158.96            | 15.33           | 15.27       | 78.18                 | 3,070.74                          | 5,837.28   | 6,513.72             | 6,483.11              | 30.60                   | 212.844           |                    |         |
| 4,400.00                      | 4,365.24            | 4,265.95            | 4,265.24            | 15.71           | 15.62       | 78.37                 | 3,071.62                          | 5,837.80   | 6,510.23             | 6,478.90              | 31.33                   | 207.788           |                    |         |
| 4,500.00                      | 4,463.07            | 4,366.55            | 4,365.83            | 16.09           | 15.95       | 78.54                 | 3,072.45                          | 5,838.22   | 6,506.73             | 6,474.69              | 32.04                   | 203.070           |                    |         |
| 4,600.00                      | 4,560.90            | 4,465.25            | 4,464.53            | 16.47           | 16.28       | 78.72                 | 3,073.22                          | 5,838.61   | 6,503.26             | 6,470.51              | 32.75                   | 198.585           |                    |         |
| 4,700.00                      | 4,658.74            | 4,563.70            | 4,562.98            | 16.85           | 16.61       | 78.89                 | 3,073.99                          | 5,839.01   | 6,499.86             | 6,466.41              | 33.45                   | 194.288           |                    |         |
| 4,800.00                      | 4,756.57            | 4,668.31            | 4,667.59            | 17.23           | 16.96       | 79.07                 | 3,074.79                          | 5,839.38   | 6,496.46             | 6,462.28              | 34.18                   | 190.049           |                    |         |
| 4,900.00                      | 4,854.40            | 4,775.90            | 4,775.17            | 17.61           | 17.32       | 79.26                 | 3,075.59                          | 5,839.62   | 6,493.00             | 6,458.07              | 34.92                   | 185.926           |                    |         |
| 5,000.00                      | 4,952.23            | 4,875.74            | 4,875.01            | 17.99           | 17.65       | 79.43                 | 3,076.39                          | 5,839.69   | 6,489.49             | 6,453.85              | 35.64                   | 182.098           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 80-GYRO-NS-CT |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                      | 5,050.07            | 4,962.68            | 4,961.94            | 18.37           | 17.94       | 79.58                 | 3,077.25                          | 5,839.75   | 6,486.10             | 6,449.79              | 36.31                   | 178.626           |                    |         |
| 5,200.00                      | 5,147.90            | 5,037.44            | 5,036.70            | 18.75           | 18.19       | 79.71                 | 3,078.21                          | 5,839.91   | 6,483.03             | 6,446.08              | 36.95                   | 175.478           |                    |         |
| 5,300.00                      | 5,245.73            | 5,110.26            | 5,109.51            | 19.14           | 18.44       | 79.83                 | 3,079.38                          | 5,840.31   | 6,480.42             | 6,442.85              | 37.57                   | 172.475           |                    |         |
| 5,400.00                      | 5,343.56            | 5,192.98            | 5,192.21            | 19.52           | 18.71       | 79.97                 | 3,080.88                          | 5,840.95   | 6,478.17             | 6,439.93              | 38.23                   | 169.431           |                    |         |
| 5,500.00                      | 5,441.40            | 5,280.82            | 5,280.03            | 19.90           | 19.01       | 80.12                 | 3,082.63                          | 5,841.77   | 6,476.17             | 6,437.25              | 38.91                   | 166.419           |                    |         |
| 5,600.00                      | 5,539.23            | 5,403.78            | 5,402.96            | 20.29           | 19.43       | 80.32                 | 3,085.03                          | 5,842.70   | 6,474.05             | 6,434.33              | 39.71                   | 163.015           |                    |         |
| 5,700.00                      | 5,637.06            | 5,501.95            | 5,501.12            | 20.67           | 19.76       | 80.49                 | 3,086.99                          | 5,843.27   | 6,471.85             | 6,431.42              | 40.43                   | 160.071           |                    |         |
| 5,800.00                      | 5,734.90            | 5,614.04            | 5,613.18            | 21.05           | 20.14       | 80.68                 | 3,089.09                          | 5,843.93   | 6,469.68             | 6,428.48              | 41.20                   | 157.048           |                    |         |
| 5,900.00                      | 5,832.73            | 5,719.47            | 5,718.61            | 21.44           | 20.49       | 80.86                 | 3,090.36                          | 5,844.50   | 6,467.25             | 6,425.32              | 41.94                   | 154.211           |                    |         |
| 6,000.00                      | 5,930.56            | 5,848.39            | 5,847.52            | 21.83           | 20.93       | 81.09                 | 3,090.67                          | 5,845.48   | 6,464.77             | 6,422.01              | 42.76                   | 151.191           |                    |         |
| 6,100.00                      | 6,028.39            | 5,987.96            | 5,987.07            | 22.21           | 21.41       | 81.36                 | 3,089.44                          | 5,846.27   | 6,461.75             | 6,418.14              | 43.62                   | 148.153           |                    |         |
| 6,200.00                      | 6,126.23            | 6,136.45            | 6,135.55            | 22.60           | 21.91       | 81.65                 | 3,087.36                          | 5,846.18   | 6,458.04             | 6,413.54              | 44.50                   | 145.128           |                    |         |
| 6,300.00                      | 6,224.06            | 6,380.76            | 6,379.80            | 22.98           | 22.73       | 82.10                 | 3,085.00                          | 5,841.95   | 6,453.21             | 6,407.53              | 45.68                   | 141.270           |                    |         |
| 6,400.00                      | 6,321.89            | 6,476.41            | 6,475.40            | 23.37           | 23.06       | 82.27                 | 3,083.51                          | 5,839.09   | 6,446.93             | 6,400.54              | 46.39                   | 138.974           |                    |         |
| 6,500.00                      | 6,419.72            | 6,573.59            | 6,572.53            | 23.76           | 23.38       | 82.46                 | 3,081.42                          | 5,836.66   | 6,440.94             | 6,393.83              | 47.10                   | 136.737           |                    |         |
| 6,600.00                      | 6,517.56            | 6,647.22            | 6,646.12            | 24.14           | 23.63       | 82.61                 | 3,079.63                          | 5,834.91   | 6,435.07             | 6,387.32              | 47.75                   | 134.776           |                    |         |
| 6,700.00                      | 6,615.39            | 6,713.27            | 6,712.13            | 24.53           | 23.86       | 82.73                 | 3,078.28                          | 5,833.64   | 6,429.78             | 6,381.42              | 48.36                   | 132.944           |                    |         |
| 6,800.00                      | 6,713.22            | 6,808.81            | 6,807.65            | 24.92           | 24.18       | 82.92                 | 3,076.65                          | 5,832.02   | 6,424.90             | 6,375.82              | 49.08                   | 130.917           |                    |         |
| 6,900.00                      | 6,811.05            | 6,953.77            | 6,952.55            | 25.30           | 24.67       | 83.19                 | 3,074.20                          | 5,828.52   | 6,419.35             | 6,369.40              | 49.94                   | 128.531           |                    |         |
| 7,000.00                      | 6,908.89            | 6,978.42            | 6,977.18            | 25.69           | 24.76       | 83.24                 | 3,073.82                          | 5,827.87   | 6,414.21             | 6,363.78              | 50.43                   | 127.186           |                    |         |
| 7,100.00                      | 7,006.72            | 6,978.42            | 6,977.18            | 26.08           | 24.76       | 83.24                 | 3,073.82                          | 5,827.87   | 6,410.59             | 6,359.76              | 50.83                   | 126.110           |                    |         |
| 7,200.00                      | 7,104.55            | 6,978.42            | 6,977.18            | 26.47           | 24.76       | 83.24                 | 3,073.82                          | 5,827.87   | 6,408.52             | 6,357.30              | 51.23                   | 125.104           |                    |         |
| 7,216.87                      | 7,121.05            | 6,978.42            | 6,977.18            | 26.53           | 24.76       | 83.24                 | 3,073.82                          | 5,827.87   | 6,408.33             | 6,357.04              | 51.29                   | 124.941           |                    |         |
| 7,271.60                      | 7,174.68            | 6,978.42            | 6,977.18            | 26.74           | 24.76       | 83.24                 | 3,073.82                          | 5,827.87   | 6,408.05             | 6,356.55              | 51.50                   | 124.429           |                    |         |
| 7,300.00                      | 7,202.57            | 6,978.42            | 6,977.18            | 26.85           | 24.76       | 83.24                 | 3,073.82                          | 5,827.87   | 6,408.12             | 6,356.52              | 51.61                   | 124.173           |                    |         |
| 7,400.00                      | 7,301.06            | 6,978.42            | 6,977.18            | 27.23           | 24.76       | 83.26                 | 3,073.82                          | 5,827.87   | 6,409.59             | 6,357.62              | 51.97                   | 123.328           |                    |         |
| 7,500.00                      | 7,399.97            | 6,978.42            | 6,977.18            | 27.61           | 24.76       | 83.31                 | 3,073.82                          | 5,827.87   | 6,412.92             | 6,360.60              | 52.32                   | 122.568           |                    |         |
| 7,600.00                      | 7,499.23            | 6,978.42            | 6,977.18            | 27.98           | 24.76       | 83.39                 | 3,073.82                          | 5,827.87   | 6,418.11             | 6,365.46              | 52.65                   | 121.892           |                    |         |
| 7,700.00                      | 7,598.77            | 6,978.42            | 6,977.18            | 28.34           | 24.76       | 83.49                 | 3,073.82                          | 5,827.87   | 6,425.16             | 6,372.19              | 52.97                   | 121.298           |                    |         |
| 7,800.00                      | 7,698.53            | 6,978.42            | 6,977.18            | 28.70           | 24.76       | 83.62                 | 3,073.82                          | 5,827.87   | 6,434.05             | 6,380.78              | 53.27                   | 120.785           |                    |         |
| 7,900.00                      | 7,798.44            | 6,978.42            | 6,977.18            | 29.05           | 24.76       | 83.78                 | 3,073.82                          | 5,827.87   | 6,444.76             | 6,391.21              | 53.55                   | 120.349           |                    |         |
| 8,000.00                      | 7,898.42            | 6,978.42            | 6,977.18            | 29.39           | 24.76       | 83.97                 | 3,073.82                          | 5,827.87   | 6,457.29             | 6,403.47              | 53.82                   | 119.990           |                    |         |
| 8,013.58                      | 7,912.00            | 6,978.42            | 6,977.18            | 29.43           | 24.76       | 71.22                 | 3,073.82                          | 5,827.87   | 6,459.13             | 6,405.28              | 53.85                   | 119.946           |                    |         |
| 8,100.00                      | 7,998.42            | 6,978.42            | 6,977.18            | 29.73           | 24.76       | 71.22                 | 3,073.82                          | 5,827.87   | 6,471.51             | 6,417.44              | 54.07                   | 119.696           |                    |         |
| 8,200.00                      | 8,098.42            | 6,978.42            | 6,977.18            | 30.07           | 24.76       | 71.22                 | 3,073.82                          | 5,827.87   | 6,487.24             | 6,432.94              | 54.31                   | 119.454           |                    |         |
| 8,300.00                      | 8,198.42            | 6,978.42            | 6,977.18            | 30.41           | 24.76       | 71.22                 | 3,073.82                          | 5,827.87   | 6,504.48             | 6,449.94              | 54.54                   | 119.264           |                    |         |
| 8,363.62                      | 8,262.04            | 6,978.42            | 6,977.18            | 30.62           | 24.76       | 71.22                 | 3,073.82                          | 5,827.87   | 6,516.21             | 6,461.53              | 54.68                   | 119.168           |                    |         |
| 8,400.00                      | 8,298.40            | 6,978.42            | 6,977.18            | 30.75           | 24.76       | -18.25                | 3,073.82                          | 5,827.87   | 6,522.12             | 6,467.36              | 54.76                   | 119.110           |                    |         |
| 8,450.00                      | 8,348.10            | 6,978.42            | 6,977.18            | 30.91           | 24.76       | -18.10                | 3,073.82                          | 5,827.87   | 6,527.01             | 6,472.15              | 54.86                   | 118.986           |                    |         |
| 8,500.00                      | 8,397.14            | 6,978.42            | 6,977.18            | 31.07           | 24.76       | -18.06                | 3,073.82                          | 5,827.87   | 6,528.14             | 6,473.19              | 54.95                   | 118.801           |                    |         |
| 8,550.00                      | 8,445.15            | 6,978.42            | 6,977.18            | 31.23           | 24.76       | -18.14                | 3,073.82                          | 5,827.87   | 6,525.51             | 6,470.47              | 55.04                   | 118.557           |                    |         |
| 8,600.00                      | 8,491.77            | 6,978.42            | 6,977.18            | 31.38           | 24.76       | -18.34                | 3,073.82                          | 5,827.87   | 6,519.13             | 6,464.01              | 55.13                   | 118.259           |                    |         |
| 8,650.00                      | 8,536.65            | 6,978.42            | 6,977.18            | 31.52           | 24.76       | -18.67                | 3,073.82                          | 5,827.87   | 6,509.04             | 6,453.84              | 55.20                   | 117.907           |                    |         |
| 8,700.00                      | 8,579.43            | 6,978.42            | 6,977.18            | 31.66           | 24.76       | -19.13                | 3,073.82                          | 5,827.87   | 6,495.30             | 6,440.03              | 55.28                   | 117.506           |                    |         |
| 8,750.00                      | 8,619.80            | 6,978.42            | 6,977.18            | 31.80           | 24.76       | -19.75                | 3,073.82                          | 5,827.87   | 6,478.00             | 6,422.66              | 55.34                   | 117.056           |                    |         |
| 8,800.00                      | 8,657.44            | 6,978.42            | 6,977.18            | 31.93           | 24.76       | -20.54                | 3,073.82                          | 5,827.87   | 6,457.23             | 6,401.83              | 55.40                   | 116.560           |                    |         |
| 8,850.00                      | 8,692.08            | 6,978.42            | 6,977.18            | 32.06           | 24.76       | -21.52                | 3,073.82                          | 5,827.87   | 6,433.11             | 6,377.67              | 55.45                   | 116.021           |                    |         |
| 8,900.00                      | 8,723.44            | 6,978.42            | 6,977.18            | 32.19           | 24.76       | -22.75                | 3,073.82                          | 5,827.87   | 6,405.81             | 6,350.32              | 55.49                   | 115.439           |                    |         |
| 8,950.00                      | 8,751.29            | 6,978.42            | 6,977.18            | 32.34           | 24.76       | -24.28                | 3,073.82                          | 5,827.87   | 6,375.48             | 6,319.95              | 55.53                   | 114.817           |                    |         |
| 9,000.00                      | 8,775.42            | 6,978.42            | 6,977.18            | 32.50           | 24.76       | -26.17                | 3,073.82                          | 5,827.87   | 6,342.32             | 6,286.76              | 55.56                   | 114.157           |                    |         |
| 9,050.00                      | 8,795.64            | 6,978.42            | 6,977.18            | 32.67           | 24.76       | -28.52                | 3,073.82                          | 5,827.87   | 6,306.53             | 6,250.94              | 55.58                   | 113.460           |                    |         |
| 9,100.00                      | 8,811.80            | 6,978.42            | 6,977.18            | 32.87           | 24.76       | -31.48                | 3,073.82                          | 5,827.87   | 6,268.34             | 6,212.74              | 55.61                   | 112.729           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 80-GYRO-NS-CT |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,150.00                      | 8,823.77            | 6,978.42            | 6,977.18            | 33.10           | 24.76       | -35.24                | 3,073.82                          | 5,827.87   | 6,228.01             | 6,172.39              | 55.62                   | 111.966           |                    |         |
| 9,200.00                      | 8,831.47            | 6,978.42            | 6,977.18            | 33.34           | 24.76       | -40.05                | 3,073.82                          | 5,827.87   | 6,185.80             | 6,130.16              | 55.64                   | 111.174           |                    |         |
| 9,250.00                      | 8,834.84            | 6,978.42            | 6,977.18            | 33.60           | 24.76       | -46.26                | 3,073.82                          | 5,827.87   | 6,142.00             | 6,086.34              | 55.66                   | 110.354           |                    |         |
| 9,263.62                      | 8,835.00            | 6,978.42            | 6,977.18            | 33.67           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 6,129.83             | 6,074.17              | 55.66                   | 110.124           |                    |         |
| 9,300.00                      | 8,835.00            | 6,978.42            | 6,977.18            | 33.88           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 6,097.23             | 6,041.55              | 55.67                   | 109.517           |                    |         |
| 9,400.00                      | 8,835.00            | 6,978.42            | 6,977.18            | 34.53           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 6,007.83             | 5,952.12              | 55.72                   | 107.829           |                    |         |
| 9,500.00                      | 8,835.00            | 6,978.42            | 6,977.18            | 35.30           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,918.78             | 5,862.99              | 55.78                   | 106.108           |                    |         |
| 9,600.00                      | 8,835.00            | 6,978.42            | 6,977.18            | 36.17           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,830.07             | 5,774.21              | 55.87                   | 104.352           |                    |         |
| 9,700.00                      | 8,835.00            | 6,978.42            | 6,977.18            | 37.13           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,741.74             | 5,685.76              | 55.98                   | 102.562           |                    |         |
| 9,800.00                      | 8,835.00            | 6,978.42            | 6,977.18            | 38.18           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,653.80             | 5,597.68              | 56.12                   | 100.737           |                    |         |
| 9,900.00                      | 8,835.00            | 6,978.42            | 6,977.18            | 39.31           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,566.27             | 5,509.97              | 56.30                   | 98.876            |                    |         |
| 10,000.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 40.51           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,479.16             | 5,422.66              | 56.50                   | 96.981            |                    |         |
| 10,100.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 41.78           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,392.50             | 5,335.77              | 56.73                   | 95.052            |                    |         |
| 10,200.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 43.10           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,306.31             | 5,249.31              | 57.00                   | 93.089            |                    |         |
| 10,300.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 44.49           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,220.61             | 5,163.30              | 57.31                   | 91.093            |                    |         |
| 10,400.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 45.92           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,135.43             | 5,077.77              | 57.66                   | 89.067            |                    |         |
| 10,500.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 47.39           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,050.79             | 4,992.75              | 58.05                   | 87.012            |                    |         |
| 10,600.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 48.91           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,966.73             | 4,908.25              | 58.48                   | 84.930            |                    |         |
| 10,700.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 50.47           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,883.26             | 4,824.30              | 58.96                   | 82.825            |                    |         |
| 10,800.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 52.06           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,800.43             | 4,740.94              | 59.49                   | 80.698            |                    |         |
| 10,900.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 53.68           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,718.26             | 4,658.19              | 60.06                   | 78.554            |                    |         |
| 11,000.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 55.32           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,636.79             | 4,576.10              | 60.69                   | 76.397            |                    |         |
| 11,100.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 57.00           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,556.06             | 4,494.68              | 61.38                   | 74.230            |                    |         |
| 11,200.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 58.70           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,476.11             | 4,413.99              | 62.12                   | 72.058            |                    |         |
| 11,300.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 60.41           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,396.98             | 4,334.06              | 62.92                   | 69.886            |                    |         |
| 11,400.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 62.15           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,318.71             | 4,254.94              | 63.78                   | 67.717            |                    |         |
| 11,500.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 63.91           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,241.36             | 4,176.66              | 64.70                   | 65.558            |                    |         |
| 11,600.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 65.69           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,164.97             | 4,099.29              | 65.68                   | 63.413            |                    |         |
| 11,700.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 67.47           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,089.60             | 4,022.87              | 66.73                   | 61.287            |                    |         |
| 11,800.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 69.28           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,015.31             | 3,947.47              | 67.84                   | 59.185            |                    |         |
| 11,900.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 71.09           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,942.15             | 3,873.13              | 69.03                   | 57.111            |                    |         |
| 12,000.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 72.92           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,870.20             | 3,799.92              | 70.28                   | 55.071            |                    |         |
| 12,100.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 74.76           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,799.51             | 3,727.92              | 71.60                   | 53.069            |                    |         |
| 12,200.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 76.61           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,730.17             | 3,657.18              | 72.98                   | 51.110            |                    |         |
| 12,300.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 78.47           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,662.24             | 3,587.80              | 74.44                   | 49.196            |                    |         |
| 12,400.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 80.34           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,595.81             | 3,519.84              | 75.97                   | 47.333            |                    |         |
| 12,500.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 82.22           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,530.97             | 3,453.40              | 77.57                   | 45.523            |                    |         |
| 12,600.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 84.11           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,467.79             | 3,388.57              | 79.23                   | 43.769            |                    |         |
| 12,700.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 86.00           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,406.39             | 3,325.43              | 80.96                   | 42.075            |                    |         |
| 12,800.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 87.90           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,346.84             | 3,264.08              | 82.75                   | 40.444            |                    |         |
| 12,900.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 89.81           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,289.25             | 3,204.64              | 84.61                   | 38.876            |                    |         |
| 13,000.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 91.72           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,233.74             | 3,147.21              | 86.52                   | 37.374            |                    |         |
| 13,100.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 93.64           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,180.39             | 3,091.90              | 88.49                   | 35.940            |                    |         |
| 13,200.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 95.56           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,129.34             | 3,038.83              | 90.51                   | 34.574            |                    |         |
| 13,300.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 97.49           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,080.69             | 2,988.11              | 92.57                   | 33.278            |                    |         |
| 13,400.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 99.42           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,034.55             | 2,939.87              | 94.67                   | 32.052            |                    |         |
| 13,500.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 101.36          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,991.04             | 2,894.24              | 96.81                   | 30.897            |                    |         |
| 13,600.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 103.30          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,950.29             | 2,851.33              | 98.96                   | 29.813            |                    |         |
| 13,700.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 105.25          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,912.40             | 2,811.27              | 101.13                  | 28.799            |                    |         |
| 13,800.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 107.20          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,877.49             | 2,774.19              | 103.30                  | 27.855            |                    |         |
| 13,900.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 109.15          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,845.66             | 2,740.19              | 105.47                  | 26.981            |                    |         |
| 14,000.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 111.10          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,817.03             | 2,709.41              | 107.62                  | 26.176            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Sec 13-T21S-R27E - Lone Tree Draw State Com 2H - Wellbore #1 - Wellbore #1 |         | Offset Site Error: 5.00 ft |  |
|-------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|----------------------------------------------------------------------------|---------|----------------------------|--|
| Survey Program: 80-GYRO-NS-CT |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: 0.50 ft                                                 |         |                            |  |
| Reference                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                                                                            | Warning |                            |  |
| Measured Depth (ft)           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                                                                            |         |                            |  |
| 14,100.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 113.06          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,791.69             | 2,681.95              | 109.74                  | 25.439            |                                                                            |         |                            |  |
| 14,200.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 115.03          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,769.72             | 2,657.90              | 111.82                  | 24.769            |                                                                            |         |                            |  |
| 14,300.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 116.99          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,751.22             | 2,637.37              | 113.86                  | 24.164            |                                                                            |         |                            |  |
| 14,400.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 118.96          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,736.26             | 2,620.43              | 115.83                  | 23.624            |                                                                            |         |                            |  |
| 14,500.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 120.93          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,724.88             | 2,607.16              | 117.72                  | 23.147            |                                                                            |         |                            |  |
| 14,600.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 122.90          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,717.13             | 2,597.60              | 119.53                  | 22.731            |                                                                            |         |                            |  |
| 14,700.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 124.88          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,713.06             | 2,591.81              | 121.25                  | 22.375            |                                                                            |         |                            |  |
| 14,760.69                     | 8,835.00            | 6,978.42            | 6,977.18            | 126.08          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,712.38             | 2,590.13              | 122.25                  | 22.188            | CC                                                                         |         |                            |  |
| 14,800.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 126.86          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,712.66             | 2,589.79              | 122.87                  | 22.078            | ES                                                                         |         |                            |  |
| 14,900.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 128.84          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,715.95             | 2,591.58              | 124.38                  | 21.837            |                                                                            |         |                            |  |
| 15,000.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 130.82          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,722.91             | 2,597.15              | 125.77                  | 21.650            |                                                                            |         |                            |  |
| 15,100.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 132.80          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,733.52             | 2,606.48              | 127.04                  | 21.517            |                                                                            |         |                            |  |
| 15,200.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 134.79          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,747.72             | 2,619.53              | 128.19                  | 21.435            |                                                                            |         |                            |  |
| 15,300.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 136.78          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,765.47             | 2,636.26              | 129.22                  | 21.402            | SF                                                                         |         |                            |  |
| 15,400.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 138.76          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,786.70             | 2,656.58              | 130.12                  | 21.417            |                                                                            |         |                            |  |
| 15,500.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 140.76          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,811.33             | 2,680.43              | 130.90                  | 21.477            |                                                                            |         |                            |  |
| 15,600.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 142.75          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,839.27             | 2,707.71              | 131.56                  | 21.582            |                                                                            |         |                            |  |
| 15,700.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 144.74          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,870.42             | 2,738.32              | 132.10                  | 21.729            |                                                                            |         |                            |  |
| 15,800.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 146.74          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,904.68             | 2,772.15              | 132.53                  | 21.917            |                                                                            |         |                            |  |
| 15,900.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 148.73          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,941.94             | 2,809.09              | 132.86                  | 22.144            |                                                                            |         |                            |  |
| 16,000.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 150.73          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,982.09             | 2,849.01              | 133.08                  | 22.408            |                                                                            |         |                            |  |
| 16,100.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 152.73          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,025.02             | 2,891.80              | 133.21                  | 22.708            |                                                                            |         |                            |  |
| 16,200.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 154.73          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,070.60             | 2,937.34              | 133.26                  | 23.042            |                                                                            |         |                            |  |
| 16,300.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 156.73          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,118.73             | 2,985.50              | 133.23                  | 23.409            |                                                                            |         |                            |  |
| 16,400.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 158.74          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,169.28             | 3,036.16              | 133.12                  | 23.807            |                                                                            |         |                            |  |
| 16,500.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 160.74          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,222.14             | 3,089.19              | 132.95                  | 24.236            |                                                                            |         |                            |  |
| 16,600.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 162.74          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,277.20             | 3,144.48              | 132.72                  | 24.692            |                                                                            |         |                            |  |
| 16,700.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 164.75          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,334.35             | 3,201.91              | 132.44                  | 25.176            |                                                                            |         |                            |  |
| 16,800.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 166.76          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,393.49             | 3,261.37              | 132.11                  | 25.686            |                                                                            |         |                            |  |
| 16,900.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 168.77          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,454.51             | 3,322.76              | 131.75                  | 26.221            |                                                                            |         |                            |  |
| 17,000.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 170.77          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,517.31             | 3,385.97              | 131.34                  | 26.780            |                                                                            |         |                            |  |
| 17,100.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 172.78          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,581.81             | 3,450.90              | 130.91                  | 27.361            |                                                                            |         |                            |  |
| 17,200.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 174.79          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,647.90             | 3,517.45              | 130.45                  | 27.963            |                                                                            |         |                            |  |
| 17,300.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 176.81          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,715.52             | 3,585.54              | 129.97                  | 28.587            |                                                                            |         |                            |  |
| 17,400.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 178.82          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,784.56             | 3,655.09              | 129.48                  | 29.230            |                                                                            |         |                            |  |
| 17,500.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 180.83          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,854.97             | 3,726.00              | 128.97                  | 29.892            |                                                                            |         |                            |  |
| 17,600.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 182.84          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,926.66             | 3,798.22              | 128.44                  | 30.571            |                                                                            |         |                            |  |
| 17,700.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 184.86          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,999.56             | 3,871.65              | 127.91                  | 31.268            |                                                                            |         |                            |  |
| 17,800.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 186.87          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,073.62             | 3,946.24              | 127.38                  | 31.981            |                                                                            |         |                            |  |
| 17,900.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 188.89          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,148.76             | 4,021.92              | 126.84                  | 32.709            |                                                                            |         |                            |  |
| 18,000.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 190.91          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,224.94             | 4,098.64              | 126.30                  | 33.452            |                                                                            |         |                            |  |
| 18,100.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 192.92          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,302.09             | 4,176.33              | 125.76                  | 34.210            |                                                                            |         |                            |  |
| 18,200.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 194.94          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,380.16             | 4,254.94              | 125.22                  | 34.980            |                                                                            |         |                            |  |
| 18,300.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 196.96          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,459.11             | 4,334.43              | 124.68                  | 35.764            |                                                                            |         |                            |  |
| 18,400.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 198.98          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,538.89             | 4,414.74              | 124.15                  | 36.560            |                                                                            |         |                            |  |
| 18,500.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 201.00          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,619.46             | 4,495.84              | 123.62                  | 37.368            |                                                                            |         |                            |  |
| 18,600.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 203.02          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,700.77             | 4,577.67              | 123.10                  | 38.186            |                                                                            |         |                            |  |
| 18,700.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 205.04          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,782.79             | 4,660.21              | 122.59                  | 39.016            |                                                                            |         |                            |  |
| 18,800.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 207.06          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,865.49             | 4,743.41              | 122.08                  | 39.855            |                                                                            |         |                            |  |
| 18,900.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 209.08          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,948.82             | 4,827.24              | 121.58                  | 40.705            |                                                                            |         |                            |  |
| 19,000.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 211.10          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,032.76             | 4,911.68              | 121.09                  | 41.563            |                                                                            |         |                            |  |
| 19,100.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 213.12          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,117.28             | 4,996.68              | 120.60                  | 42.431            |                                                                            |         |                            |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw State Com 2H - Wellbore #1 - Wellbore #1 |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Site Error:</b> | 5.00 ft |
|-------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|-----------------------------------------|---------------|-------------------------|--------------------------|----------------------------|---------------------------|---------|
| Survey Program: 80-GYRO-NS-CT                                                                   |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                       |                        | Offset                 |                        | Semi Major Axis   |                |                          | Distance                                |               |                         |                          |                            |                           | Warning |
| Measured Depth<br>(ft)                                                                          | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between Centres<br>(ft) | Between Ellipses<br>(ft) | Minimum Separation<br>(ft) | Separation Factor         |         |
| 19,200.00                                                                                       | 8,835.00               | 6,978.42               | 6,977.18               | 215.15            | 24.76          | -48.25                   | 3,073.82                                | 5,827.87      | 5,202.35                | 5,082.22                 | 120.13                     | 43.306                    |         |
| 19,308.27                                                                                       | 8,835.00               | 6,978.42               | 6,977.18               | 217.34            | 24.76          | -48.25                   | 3,073.82                                | 5,827.87      | 5,295.04                | 5,175.41                 | 119.62                     | 44.264                    |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                        | 0.00                | 0.00                | 0.00                | 0.50            | 5.02        | 90.36                 | -44.33                            | 7,023.37   | 7,023.99             |                       |                         |                   |                    |         |
| 100.00                      | 100.00              | 18.20               | 18.20               | 0.52            | 5.03        | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,017.97              | 5.54                    | 1,266.823         |                    |         |
| 200.00                      | 200.00              | 118.20              | 118.20              | 0.70            | 5.28        | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,017.53              | 5.98                    | 1,174.220         |                    |         |
| 300.00                      | 300.00              | 218.20              | 218.20              | 0.99            | 5.91        | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,016.61              | 6.90                    | 1,017.952         |                    |         |
| 400.00                      | 400.00              | 318.20              | 318.20              | 1.31            | 6.82        | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,015.38              | 8.13                    | 863.956           |                    |         |
| 500.00                      | 500.00              | 418.20              | 418.20              | 1.65            | 7.91        | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,013.96              | 9.56                    | 735.027           |                    |         |
| 600.00                      | 600.00              | 518.20              | 518.20              | 1.99            | 9.11        | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,012.41              | 11.11                   | 632.451           |                    |         |
| 700.00                      | 700.00              | 618.20              | 618.20              | 2.34            | 10.40       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,010.78              | 12.74                   | 551.508           |                    |         |
| 800.00                      | 800.00              | 718.20              | 718.20              | 2.69            | 11.73       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,009.09              | 14.42                   | 487.114           |                    |         |
| 900.00                      | 900.00              | 818.20              | 818.20              | 3.04            | 13.10       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,007.37              | 16.14                   | 435.180           |                    |         |
| 1,000.00                    | 1,000.00            | 918.20              | 918.20              | 3.40            | 14.49       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,005.63              | 17.89                   | 392.669           |                    |         |
| 1,100.00                    | 1,100.00            | 1,018.20            | 1,018.20            | 3.75            | 15.90       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,003.86              | 19.65                   | 357.367           |                    |         |
| 1,200.00                    | 1,200.00            | 1,118.20            | 1,118.20            | 4.11            | 17.33       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,002.08              | 21.44                   | 327.664           |                    |         |
| 1,300.00                    | 1,300.00            | 1,218.20            | 1,218.20            | 4.46            | 18.76       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,000.28              | 23.23                   | 302.370           |                    |         |
| 1,400.00                    | 1,400.00            | 1,318.20            | 1,318.20            | 4.82            | 20.21       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 6,998.48              | 25.03                   | 280.601           |                    |         |
| 1,500.00                    | 1,500.00            | 1,418.20            | 1,418.20            | 5.18            | 21.66       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 6,996.67              | 26.84                   | 261.686           |                    |         |
| 1,600.00                    | 1,600.00            | 1,518.20            | 1,518.20            | 5.53            | 23.12       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 6,994.86              | 28.65                   | 245.111           |                    |         |
| 1,700.00                    | 1,700.00            | 1,618.20            | 1,618.20            | 5.89            | 24.58       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 6,993.04              | 30.47                   | 230.473           |                    |         |
| 1,800.00                    | 1,800.00            | 1,718.20            | 1,718.20            | 6.25            | 26.05       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 6,991.21              | 32.30                   | 217.459           |                    |         |
| 1,900.00                    | 1,900.00            | 1,818.20            | 1,818.20            | 6.61            | 27.52       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 6,989.39              | 34.13                   | 205.816           |                    |         |
| 2,000.00                    | 2,000.00            | 1,918.20            | 1,918.20            | 6.96            | 28.99       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 6,987.56              | 35.96                   | 195.341           |                    |         |
| 2,100.00                    | 2,099.99            | 2,018.19            | 2,018.19            | 7.32            | 30.47       | 103.15                | -44.33                            | 7,023.37   | 7,023.71             | 6,985.92              | 37.79                   | 185.877           |                    |         |
| 2,200.00                    | 2,199.96            | 2,118.16            | 2,118.16            | 7.68            | 31.94       | 103.16                | -44.33                            | 7,023.37   | 7,024.31             | 6,984.69              | 39.62                   | 177.294           |                    |         |
| 2,300.00                    | 2,299.86            | 2,218.06            | 2,218.06            | 8.04            | 33.42       | 103.19                | -44.33                            | 7,023.37   | 7,025.30             | 6,983.85              | 41.45                   | 169.477           |                    |         |
| 2,400.00                    | 2,399.68            | 2,317.88            | 2,317.88            | 8.39            | 34.90       | 103.22                | -44.33                            | 7,023.37   | 7,026.70             | 6,983.41              | 43.29                   | 162.333           |                    |         |
| 2,500.00                    | 2,499.37            | 2,417.57            | 2,417.57            | 8.75            | 36.38       | 103.27                | -44.33                            | 7,023.37   | 7,028.50             | 6,983.38              | 45.12                   | 155.781           |                    |         |
| 2,600.00                    | 2,598.90            | 2,517.10            | 2,517.10            | 9.11            | 37.85       | 103.32                | -44.33                            | 7,023.37   | 7,030.71             | 6,983.77              | 46.95                   | 149.752           |                    |         |
| 2,700.00                    | 2,698.26            | 2,616.46            | 2,616.46            | 9.46            | 39.32       | 103.38                | -44.33                            | 7,023.37   | 7,033.34             | 6,984.57              | 48.78                   | 144.189           |                    |         |
| 2,800.00                    | 2,797.40            | 2,715.60            | 2,715.60            | 9.82            | 40.80       | 103.46                | -44.33                            | 7,023.37   | 7,036.40             | 6,985.79              | 50.61                   | 139.042           |                    |         |
| 2,900.00                    | 2,896.30            | 2,814.50            | 2,814.50            | 10.18           | 42.27       | 103.54                | -44.33                            | 7,023.37   | 7,039.88             | 6,987.45              | 52.43                   | 134.267           |                    |         |
| 3,000.00                    | 2,994.93            | 2,913.13            | 2,913.13            | 10.54           | 43.73       | 103.63                | -44.33                            | 7,023.37   | 7,043.81             | 6,989.56              | 54.26                   | 129.828           |                    |         |
| 3,100.00                    | 3,093.26            | 3,011.46            | 3,011.46            | 10.90           | 45.19       | 103.73                | -44.33                            | 7,023.37   | 7,048.19             | 6,992.12              | 56.08                   | 125.691           |                    |         |
| 3,195.07                    | 3,186.42            | 3,104.62            | 3,104.62            | 11.24           | 46.58       | 103.83                | -44.33                            | 7,023.37   | 7,052.78             | 6,994.98              | 57.80                   | 122.012           |                    |         |
| 3,200.00                    | 3,191.25            | 3,109.45            | 3,109.45            | 11.26           | 46.65       | 103.84                | -44.33                            | 7,023.37   | 7,053.03             | 6,995.14              | 57.89                   | 121.828           |                    |         |
| 3,300.00                    | 3,289.08            | 3,207.28            | 3,207.28            | 11.62           | 48.11       | 104.00                | -44.33                            | 7,023.37   | 7,058.12             | 6,998.40              | 59.71                   | 118.204           |                    |         |
| 3,400.00                    | 3,386.91            | 3,305.11            | 3,305.11            | 11.98           | 49.56       | 104.16                | -44.33                            | 7,023.37   | 7,063.26             | 7,001.73              | 61.53                   | 114.791           |                    |         |
| 3,500.00                    | 3,484.74            | 3,402.94            | 3,402.94            | 12.35           | 51.02       | 104.32                | -44.33                            | 7,023.37   | 7,068.46             | 7,005.10              | 63.35                   | 111.572           |                    |         |
| 3,600.00                    | 3,582.58            | 3,500.78            | 3,500.78            | 12.72           | 52.48       | 104.48                | -44.33                            | 7,023.37   | 7,073.71             | 7,008.53              | 65.18                   | 108.530           |                    |         |
| 3,700.00                    | 3,680.41            | 3,598.61            | 3,598.61            | 13.09           | 53.93       | 104.63                | -44.33                            | 7,023.37   | 7,079.02             | 7,012.02              | 67.00                   | 105.651           |                    |         |
| 3,800.00                    | 3,778.24            | 3,696.44            | 3,696.44            | 13.46           | 55.39       | 104.79                | -44.33                            | 7,023.37   | 7,084.39             | 7,015.56              | 68.83                   | 102.924           |                    |         |
| 3,900.00                    | 3,876.08            | 3,794.28            | 3,794.28            | 13.83           | 56.85       | 104.95                | -44.33                            | 7,023.37   | 7,089.81             | 7,019.15              | 70.66                   | 100.337           |                    |         |
| 4,000.00                    | 3,973.91            | 3,892.11            | 3,892.11            | 14.21           | 58.31       | 105.11                | -44.33                            | 7,023.37   | 7,095.30             | 7,022.81              | 72.49                   | 97.879            |                    |         |
| 4,100.00                    | 4,071.74            | 3,989.94            | 3,989.94            | 14.58           | 59.77       | 105.27                | -44.33                            | 7,023.37   | 7,100.83             | 7,026.51              | 74.32                   | 95.541            |                    |         |
| 4,200.00                    | 4,169.57            | 4,087.77            | 4,087.77            | 14.96           | 61.23       | 105.43                | -44.33                            | 7,023.37   | 7,106.43             | 7,030.27              | 76.15                   | 93.315            |                    |         |
| 4,300.00                    | 4,267.41            | 4,185.61            | 4,185.61            | 15.33           | 62.68       | 105.58                | -44.33                            | 7,023.37   | 7,112.07             | 7,034.09              | 77.99                   | 91.193            |                    |         |
| 4,400.00                    | 4,365.24            | 4,283.44            | 4,283.44            | 15.71           | 64.14       | 105.74                | -44.33                            | 7,023.37   | 7,117.78             | 7,037.96              | 79.82                   | 89.169            |                    |         |
| 4,500.00                    | 4,463.07            | 4,381.27            | 4,381.27            | 16.09           | 65.60       | 105.90                | -44.33                            | 7,023.37   | 7,123.54             | 7,041.88              | 81.66                   | 87.235            |                    |         |
| 4,600.00                    | 4,560.90            | 4,479.10            | 4,479.10            | 16.47           | 67.06       | 106.06                | -44.33                            | 7,023.37   | 7,129.36             | 7,045.86              | 83.50                   | 85.385            |                    |         |
| 4,700.00                    | 4,658.74            | 4,576.94            | 4,576.94            | 16.85           | 68.52       | 106.21                | -44.33                            | 7,023.37   | 7,135.23             | 7,049.89              | 85.33                   | 83.616            |                    |         |
| 4,800.00                    | 4,756.57            | 4,674.77            | 4,674.77            | 17.23           | 69.98       | 106.37                | -44.33                            | 7,023.37   | 7,141.15             | 7,053.98              | 87.17                   | 81.920            |                    |         |
| 4,900.00                    | 4,854.40            | 4,772.60            | 4,772.60            | 17.61           | 71.44       | 106.52                | -44.33                            | 7,023.37   | 7,147.14             | 7,058.12              | 89.01                   | 80.295            |                    |         |
| 5,000.00                    | 4,952.23            | 4,870.43            | 4,870.43            | 17.99           | 72.90       | 106.68                | -44.33                            | 7,023.37   | 7,153.17             | 7,062.32              | 90.85                   | 78.736            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                    | 5,050.07            | 4,968.27            | 4,968.27            | 18.37           | 74.36       | 106.84                | -44.33                            | 7,023.37   | 7,159.26             | 7,066.57              | 92.69                   | 77.238            |                    |         |
| 5,200.00                    | 5,147.90            | 5,066.10            | 5,066.10            | 18.75           | 75.83       | 106.99                | -44.33                            | 7,023.37   | 7,165.41             | 7,070.88              | 94.53                   | 75.799            |                    |         |
| 5,300.00                    | 5,245.73            | 5,163.93            | 5,163.93            | 19.14           | 77.29       | 107.15                | -44.33                            | 7,023.37   | 7,171.61             | 7,075.24              | 96.37                   | 74.415            |                    |         |
| 5,400.00                    | 5,343.56            | 5,261.76            | 5,261.76            | 19.52           | 78.75       | 107.30                | -44.33                            | 7,023.37   | 7,177.86             | 7,079.65              | 98.21                   | 73.084            |                    |         |
| 5,500.00                    | 5,441.40            | 5,359.60            | 5,359.60            | 19.90           | 80.21       | 107.46                | -44.33                            | 7,023.37   | 7,184.17             | 7,084.12              | 100.06                  | 71.801            |                    |         |
| 5,600.00                    | 5,539.23            | 5,457.43            | 5,457.43            | 20.29           | 81.67       | 107.61                | -44.33                            | 7,023.37   | 7,190.54             | 7,088.64              | 101.90                  | 70.565            |                    |         |
| 5,700.00                    | 5,637.06            | 5,555.26            | 5,555.26            | 20.67           | 83.13       | 107.76                | -44.33                            | 7,023.37   | 7,196.95             | 7,093.21              | 103.74                  | 69.373            |                    |         |
| 5,800.00                    | 5,734.90            | 5,653.10            | 5,653.10            | 21.05           | 84.59       | 107.92                | -44.33                            | 7,023.37   | 7,203.42             | 7,097.84              | 105.59                  | 68.223            |                    |         |
| 5,900.00                    | 5,832.73            | 5,750.93            | 5,750.93            | 21.44           | 86.05       | 108.07                | -44.33                            | 7,023.37   | 7,209.95             | 7,102.52              | 107.43                  | 67.113            |                    |         |
| 6,000.00                    | 5,930.56            | 5,848.76            | 5,848.76            | 21.83           | 87.51       | 108.22                | -44.33                            | 7,023.37   | 7,216.53             | 7,107.25              | 109.27                  | 66.041            |                    |         |
| 6,100.00                    | 6,028.39            | 5,946.59            | 5,946.59            | 22.21           | 88.98       | 108.38                | -44.33                            | 7,023.37   | 7,223.16             | 7,112.04              | 111.12                  | 65.004            |                    |         |
| 6,200.00                    | 6,126.23            | 6,044.43            | 6,044.43            | 22.60           | 90.44       | 108.53                | -44.33                            | 7,023.37   | 7,229.84             | 7,116.88              | 112.96                  | 64.002            |                    |         |
| 6,300.00                    | 6,224.06            | 6,142.26            | 6,142.26            | 22.98           | 91.90       | 108.68                | -44.33                            | 7,023.37   | 7,236.58             | 7,121.77              | 114.81                  | 63.032            |                    |         |
| 6,400.00                    | 6,321.89            | 6,240.09            | 6,240.09            | 23.37           | 93.36       | 108.83                | -44.33                            | 7,023.37   | 7,243.37             | 7,126.72              | 116.65                  | 62.093            |                    |         |
| 6,500.00                    | 6,419.72            | 6,337.92            | 6,337.92            | 23.76           | 94.82       | 108.99                | -44.33                            | 7,023.37   | 7,250.21             | 7,131.72              | 118.50                  | 61.184            |                    |         |
| 6,600.00                    | 6,517.56            | 6,435.76            | 6,435.76            | 24.14           | 96.29       | 109.14                | -44.33                            | 7,023.37   | 7,257.11             | 7,136.77              | 120.34                  | 60.303            |                    |         |
| 6,700.00                    | 6,615.39            | 6,533.59            | 6,533.59            | 24.53           | 97.75       | 109.29                | -44.33                            | 7,023.37   | 7,264.06             | 7,141.87              | 122.19                  | 59.448            |                    |         |
| 6,800.00                    | 6,713.22            | 6,631.42            | 6,631.42            | 24.92           | 99.21       | 109.44                | -44.33                            | 7,023.37   | 7,271.06             | 7,147.02              | 124.04                  | 58.620            |                    |         |
| 6,900.00                    | 6,811.05            | 6,729.25            | 6,729.25            | 25.30           | 100.67      | 109.59                | -44.33                            | 7,023.37   | 7,278.11             | 7,152.23              | 125.88                  | 57.816            |                    |         |
| 7,000.00                    | 6,908.89            | 6,827.09            | 6,827.09            | 25.69           | 102.13      | 109.74                | -44.33                            | 7,023.37   | 7,285.22             | 7,157.49              | 127.73                  | 57.036            |                    |         |
| 7,100.00                    | 7,006.72            | 6,924.92            | 6,924.92            | 26.08           | 103.60      | 109.89                | -44.33                            | 7,023.37   | 7,292.38             | 7,162.80              | 129.58                  | 56.278            |                    |         |
| 7,200.00                    | 7,104.55            | 7,022.75            | 7,022.75            | 26.47           | 105.06      | 110.04                | -44.33                            | 7,023.37   | 7,299.58             | 7,168.16              | 131.42                  | 55.542            |                    |         |
| 7,216.87                    | 7,121.05            | 7,039.25            | 7,039.25            | 26.53           | 105.30      | 110.07                | -44.33                            | 7,023.37   | 7,300.81             | 7,169.07              | 131.74                  | 55.420            |                    |         |
| 7,300.00                    | 7,202.57            | 7,120.77            | 7,120.77            | 26.85           | 106.52      | 110.27                | -44.33                            | 7,023.37   | 7,306.53             | 7,173.26              | 133.27                  | 54.824            |                    |         |
| 7,400.00                    | 7,301.06            | 7,219.26            | 7,219.26            | 27.23           | 107.99      | 110.48                | -44.33                            | 7,023.37   | 7,312.63             | 7,177.51              | 135.12                  | 54.118            |                    |         |
| 7,500.00                    | 7,399.97            | 7,318.17            | 7,318.17            | 27.61           | 109.47      | 110.66                | -44.33                            | 7,023.37   | 7,317.85             | 7,180.87              | 136.97                  | 53.425            |                    |         |
| 7,600.00                    | 7,499.23            | 7,417.43            | 7,417.43            | 27.98           | 110.96      | 110.81                | -44.33                            | 7,023.37   | 7,322.16             | 7,183.33              | 138.83                  | 52.744            |                    |         |
| 7,700.00                    | 7,598.77            | 7,516.97            | 7,516.97            | 28.34           | 112.45      | 110.92                | -44.33                            | 7,023.37   | 7,325.56             | 7,184.88              | 140.67                  | 52.074            |                    |         |
| 7,800.00                    | 7,698.53            | 7,616.73            | 7,616.73            | 28.70           | 113.94      | 111.01                | -44.33                            | 7,023.37   | 7,328.03             | 7,185.51              | 142.52                  | 51.417            |                    |         |
| 7,900.00                    | 7,798.44            | 7,716.64            | 7,716.64            | 29.05           | 115.43      | 111.06                | -44.33                            | 7,023.37   | 7,329.57             | 7,185.20              | 144.36                  | 50.771            |                    |         |
| 8,000.00                    | 7,898.42            | 7,816.62            | 7,816.62            | 29.39           | 116.92      | 111.08                | -44.33                            | 7,023.37   | 7,330.17             | 7,183.96              | 146.20                  | 50.137            |                    |         |
| 8,013.58                    | 7,912.00            | 7,830.20            | 7,830.20            | 29.43           | 117.13      | 98.30                 | -44.33                            | 7,023.37   | 7,330.17             | 7,183.72              | 146.45                  | 50.052            |                    |         |
| 8,100.00                    | 7,998.42            | 7,916.62            | 7,916.62            | 29.73           | 118.42      | 98.30                 | -44.33                            | 7,023.37   | 7,330.17             | 7,182.14              | 148.04                  | 49.516            |                    |         |
| 8,200.00                    | 8,098.42            | 8,016.62            | 8,016.62            | 30.07           | 119.91      | 98.30                 | -44.33                            | 7,023.37   | 7,330.17             | 7,180.30              | 149.87                  | 48.910            |                    |         |
| 8,300.00                    | 8,198.42            | 8,116.62            | 8,116.62            | 30.41           | 121.41      | 98.30                 | -44.33                            | 7,023.37   | 7,330.17             | 7,178.47              | 151.71                  | 48.318            |                    |         |
| 8,363.62                    | 8,262.04            | 8,180.24            | 8,180.24            | 30.62           | 122.36      | 98.30                 | -44.33                            | 7,023.37   | 7,330.17             | 7,177.30              | 152.87                  | 47.949            |                    |         |
| 8,400.00                    | 8,298.40            | 8,216.60            | 8,216.60            | 30.75           | 122.90      | 8.66                  | -44.33                            | 7,023.37   | 7,329.03             | 7,175.49              | 153.54                  | 47.734            |                    |         |
| 8,450.00                    | 8,348.10            | 8,266.30            | 8,266.30            | 30.91           | 123.65      | 8.75                  | -44.33                            | 7,023.37   | 7,323.75             | 7,169.31              | 154.44                  | 47.421            |                    |         |
| 8,500.00                    | 8,397.14            | 8,315.34            | 8,315.34            | 31.07           | 124.38      | 8.91                  | -44.33                            | 7,023.37   | 7,314.20             | 7,158.88              | 155.33                  | 47.089            |                    |         |
| 8,550.00                    | 8,445.15            | 8,363.35            | 8,363.35            | 31.23           | 125.10      | 9.15                  | -44.33                            | 7,023.37   | 7,300.47             | 7,144.28              | 156.19                  | 46.741            |                    |         |
| 8,600.00                    | 8,491.77            | 8,409.97            | 8,409.97            | 31.38           | 125.80      | 9.48                  | -44.33                            | 7,023.37   | 7,282.65             | 7,125.62              | 157.03                  | 46.379            |                    |         |
| 8,650.00                    | 8,536.65            | 8,454.85            | 8,454.85            | 31.52           | 126.47      | 9.92                  | -44.33                            | 7,023.37   | 7,260.88             | 7,103.06              | 157.82                  | 46.006            |                    |         |
| 8,700.00                    | 8,579.43            | 8,497.63            | 8,497.63            | 31.66           | 127.11      | 10.48                 | -44.33                            | 7,023.37   | 7,235.34             | 7,076.76              | 158.58                  | 45.626            |                    |         |
| 8,750.00                    | 8,619.80            | 8,538.00            | 8,538.00            | 31.80           | 127.71      | 11.20                 | -44.33                            | 7,023.37   | 7,206.21             | 7,046.92              | 159.29                  | 45.240            |                    |         |
| 8,800.00                    | 8,657.44            | 8,575.64            | 8,575.64            | 31.93           | 128.27      | 12.12                 | -44.33                            | 7,023.37   | 7,173.71             | 7,013.77              | 159.94                  | 44.852            |                    |         |
| 8,850.00                    | 8,692.08            | 8,610.28            | 8,610.28            | 32.06           | 128.79      | 13.30                 | -44.33                            | 7,023.37   | 7,138.10             | 6,977.56              | 160.54                  | 44.463            |                    |         |
| 8,900.00                    | 8,723.44            | 8,641.64            | 8,641.64            | 32.19           | 129.26      | 14.84                 | -44.33                            | 7,023.37   | 7,099.65             | 6,938.57              | 161.08                  | 44.076            |                    |         |
| 8,950.00                    | 8,751.29            | 8,669.49            | 8,669.49            | 32.34           | 129.68      | 16.89                 | -44.33                            | 7,023.37   | 7,058.65             | 6,897.10              | 161.55                  | 43.693            |                    |         |
| 9,000.00                    | 8,775.42            | 8,693.62            | 8,693.62            | 32.50           | 130.04      | 19.70                 | -44.33                            | 7,023.37   | 7,015.41             | 6,853.45              | 161.96                  | 43.316            |                    |         |
| 9,050.00                    | 8,795.64            | 8,713.84            | 8,713.84            | 32.67           | 130.34      | 23.72                 | -44.33                            | 7,023.37   | 6,970.27             | 6,807.97              | 162.30                  | 42.948            |                    |         |
| 9,100.00                    | 8,811.80            | 8,730.00            | 8,730.00            | 32.87           | 130.58      | 29.77                 | -44.33                            | 7,023.37   | 6,923.57             | 6,761.00              | 162.57                  | 42.589            |                    |         |
| 9,150.00                    | 8,823.77            | 8,741.97            | 8,741.97            | 33.10           | 130.76      | 39.48                 | -44.33                            | 7,023.37   | 6,875.66             | 6,712.89              | 162.77                  | 42.242            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,200.00                    | 8,831.47            | 8,749.67            | 8,749.67            | 33.34           | 130.88      | 55.87                 | -44.33                            | 7,023.37   | 6,826.92             | 6,664.02              | 162.90                  | 41.908            |                    |         |
| 9,250.00                    | 8,834.84            | 8,753.04            | 8,753.04            | 33.60           | 130.93      | 81.79                 | -44.33                            | 7,023.37   | 6,777.71             | 6,614.74              | 162.97                  | 41.589            |                    |         |
| 9,263.62                    | 8,835.00            | 8,753.20            | 8,753.20            | 33.67           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,764.27             | 6,601.29              | 162.98                  | 41.505            |                    |         |
| 9,300.00                    | 8,835.00            | 8,753.20            | 8,753.20            | 33.88           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,728.38             | 6,565.39              | 162.99                  | 41.281            |                    |         |
| 9,400.00                    | 8,835.00            | 8,753.20            | 8,753.20            | 34.53           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,629.75             | 6,466.72              | 163.02                  | 40.667            |                    |         |
| 9,500.00                    | 8,835.00            | 8,753.20            | 8,753.20            | 35.30           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,531.16             | 6,368.09              | 163.06                  | 40.053            |                    |         |
| 9,600.00                    | 8,835.00            | 8,753.20            | 8,753.20            | 36.17           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,432.61             | 6,269.50              | 163.11                  | 39.437            |                    |         |
| 9,700.00                    | 8,835.00            | 8,753.20            | 8,753.20            | 37.13           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,334.11             | 6,170.95              | 163.17                  | 38.820            |                    |         |
| 9,800.00                    | 8,835.00            | 8,753.20            | 8,753.20            | 38.18           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,235.66             | 6,072.43              | 163.23                  | 38.202            |                    |         |
| 9,900.00                    | 8,835.00            | 8,753.20            | 8,753.20            | 39.31           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,137.26             | 5,973.96              | 163.30                  | 37.583            |                    |         |
| 10,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 40.51           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,038.91             | 5,875.53              | 163.38                  | 36.963            |                    |         |
| 10,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 41.78           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,940.62             | 5,777.15              | 163.47                  | 36.342            |                    |         |
| 10,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 43.10           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,842.38             | 5,678.82              | 163.56                  | 35.719            |                    |         |
| 10,300.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 44.49           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,744.20             | 5,580.53              | 163.67                  | 35.096            |                    |         |
| 10,400.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 45.92           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,646.09             | 5,482.30              | 163.79                  | 34.471            |                    |         |
| 10,500.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 47.39           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,548.05             | 5,384.13              | 163.92                  | 33.846            |                    |         |
| 10,600.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 48.91           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,450.07             | 5,286.01              | 164.07                  | 33.219            |                    |         |
| 10,700.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 50.47           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,352.18             | 5,187.95              | 164.23                  | 32.590            |                    |         |
| 10,800.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 52.06           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,254.36             | 5,089.96              | 164.40                  | 31.961            |                    |         |
| 10,900.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 53.68           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,156.62             | 4,992.03              | 164.59                  | 31.330            |                    |         |
| 11,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 55.32           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,058.98             | 4,894.18              | 164.80                  | 30.698            |                    |         |
| 11,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 57.00           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,961.42             | 4,796.40              | 165.02                  | 30.065            |                    |         |
| 11,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 58.70           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,863.97             | 4,698.70              | 165.27                  | 29.431            |                    |         |
| 11,300.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 60.41           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,766.62             | 4,601.08              | 165.54                  | 28.795            |                    |         |
| 11,400.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 62.15           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,669.38             | 4,503.56              | 165.83                  | 28.158            |                    |         |
| 11,500.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 63.91           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,572.27             | 4,406.12              | 166.15                  | 27.520            |                    |         |
| 11,600.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 65.69           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,475.28             | 4,308.79              | 166.49                  | 26.880            |                    |         |
| 11,700.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 67.47           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,378.42             | 4,211.56              | 166.86                  | 26.239            |                    |         |
| 11,800.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 69.28           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,281.71             | 4,114.44              | 167.27                  | 25.597            |                    |         |
| 11,900.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 71.09           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,185.16             | 4,017.45              | 167.71                  | 24.954            |                    |         |
| 12,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 72.92           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,088.77             | 3,920.58              | 168.19                  | 24.310            |                    |         |
| 12,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 74.76           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,992.56             | 3,823.85              | 168.71                  | 23.665            |                    |         |
| 12,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 76.61           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,896.54             | 3,727.26              | 169.28                  | 23.019            |                    |         |
| 12,300.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 78.47           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,800.72             | 3,630.83              | 169.89                  | 22.372            |                    |         |
| 12,400.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 80.34           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,705.13             | 3,534.57              | 170.55                  | 21.724            |                    |         |
| 12,500.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 82.22           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,609.77             | 3,438.50              | 171.28                  | 21.076            |                    |         |
| 12,600.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 84.11           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,514.67             | 3,342.61              | 172.06                  | 20.427            |                    |         |
| 12,700.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 86.00           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,419.85             | 3,246.95              | 172.91                  | 19.779            |                    |         |
| 12,800.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 87.90           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,325.34             | 3,151.51              | 173.83                  | 19.130            |                    |         |
| 12,900.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 89.81           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,231.16             | 3,056.33              | 174.83                  | 18.482            |                    |         |
| 13,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 91.72           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,137.33             | 2,961.42              | 175.91                  | 17.835            |                    |         |
| 13,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 93.64           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,043.90             | 2,866.81              | 177.09                  | 17.188            |                    |         |
| 13,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 95.56           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,950.90             | 2,772.53              | 178.37                  | 16.544            |                    |         |
| 13,300.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 97.49           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,858.37             | 2,678.61              | 179.76                  | 15.901            |                    |         |
| 13,400.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 99.42           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,766.36             | 2,585.09              | 181.27                  | 15.261            |                    |         |
| 13,500.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 101.36          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,674.93             | 2,492.02              | 182.91                  | 14.624            |                    |         |
| 13,600.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 103.30          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,584.13             | 2,399.43              | 184.70                  | 13.991            |                    |         |
| 13,700.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 105.25          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,494.03             | 2,307.40              | 186.64                  | 13.363            |                    |         |
| 13,800.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 107.20          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,404.72             | 2,215.98              | 188.75                  | 12.741            |                    |         |
| 13,900.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 109.15          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,316.28             | 2,125.24              | 191.04                  | 12.125            |                    |         |
| 14,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 111.10          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,228.82             | 2,035.28              | 193.54                  | 11.516            |                    |         |
| 14,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 113.06          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,142.46             | 1,946.21              | 196.25                  | 10.917            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 14,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 115.03          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,057.33             | 1,858.12              | 199.21                  | 10.328            |                    |         |
| 14,300.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 116.99          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,973.60             | 1,771.18              | 202.42                  | 9.750             |                    |         |
| 14,400.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 118.96          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,891.45             | 1,685.54              | 205.90                  | 9.186             |                    |         |
| 14,500.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 120.93          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,811.09             | 1,601.41              | 209.68                  | 8.637             |                    |         |
| 14,600.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 122.90          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,732.78             | 1,519.01              | 213.77                  | 8.106             |                    |         |
| 14,700.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 124.88          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,656.81             | 1,438.62              | 218.19                  | 7.593             |                    |         |
| 14,800.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 126.86          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,583.51             | 1,360.57              | 222.93                  | 7.103             |                    |         |
| 14,900.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 128.84          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,513.27             | 1,285.26              | 228.01                  | 6.637             |                    |         |
| 15,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 130.82          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,446.53             | 1,213.14              | 233.39                  | 6.198             |                    |         |
| 15,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 132.80          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,383.81             | 1,144.77              | 239.04                  | 5.789             |                    |         |
| 15,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 134.79          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,325.68             | 1,080.77              | 244.91                  | 5.413             |                    |         |
| 15,300.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 136.78          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,272.75             | 1,021.87              | 250.88                  | 5.073             |                    |         |
| 15,400.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 138.76          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,225.72             | 968.87                | 256.84                  | 4.772             | Alert              |         |
| 15,500.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 140.76          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,185.27             | 922.65                | 262.61                  | 4.513             | Alert              |         |
| 15,600.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 142.75          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,152.10             | 884.11                | 267.99                  | 4.299             | Alert              |         |
| 15,700.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 144.74          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,126.86             | 854.11                | 272.75                  | 4.131             | Alert              |         |
| 15,800.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 146.74          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,110.09             | 833.41                | 276.69                  | 4.012             | Alert              |         |
| 15,900.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 148.73          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,102.17             | 822.57                | 279.60                  | 3.942             | Alert              |         |
| 15,937.60                   | 8,835.00            | 8,753.20            | 8,753.20            | 149.48          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,101.53             | 821.12                | 280.41                  | 3.928             | Alert, CC, ES      |         |
| 16,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 150.73          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,103.30             | 821.91                | 281.39                  | 3.921             | Alert, SF          |         |
| 16,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 152.73          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,113.44             | 831.44                | 282.00                  | 3.948             | Alert              |         |
| 16,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 154.73          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,132.35             | 850.87                | 281.48                  | 4.023             | Alert              |         |
| 16,300.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 156.73          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,159.61             | 879.65                | 279.97                  | 4.142             | Alert              |         |
| 16,400.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 158.74          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,194.65             | 917.04                | 277.61                  | 4.303             | Alert              |         |
| 16,500.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 160.74          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,236.80             | 962.18                | 274.61                  | 4.504             | Alert              |         |
| 16,600.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 162.74          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,285.36             | 1,014.20              | 271.16                  | 4.740             | Alert              |         |
| 16,700.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 164.75          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,339.64             | 1,072.22              | 267.41                  | 5.010             |                    |         |
| 16,800.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 166.76          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,398.97             | 1,135.44              | 263.52                  | 5.309             |                    |         |
| 16,900.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 168.77          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,462.73             | 1,203.14              | 259.60                  | 5.635             |                    |         |
| 17,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 170.77          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,530.38             | 1,274.67              | 255.72                  | 5.985             |                    |         |
| 17,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 172.78          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,601.42             | 1,349.48              | 251.94                  | 6.356             |                    |         |
| 17,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 174.79          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,675.42             | 1,427.11              | 248.31                  | 6.747             |                    |         |
| 17,300.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 176.81          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,752.00             | 1,507.15              | 244.85                  | 7.155             |                    |         |
| 17,400.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 178.82          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,830.84             | 1,589.27              | 241.57                  | 7.579             |                    |         |
| 17,500.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 180.83          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,911.67             | 1,673.19              | 238.47                  | 8.016             |                    |         |
| 17,600.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 182.84          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,994.23             | 1,758.67              | 235.56                  | 8.466             |                    |         |
| 17,700.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 184.86          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,078.33             | 1,845.50              | 232.83                  | 8.926             |                    |         |
| 17,800.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 186.87          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,163.77             | 1,933.51              | 230.27                  | 9.397             |                    |         |
| 17,900.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 188.89          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,250.42             | 2,022.56              | 227.87                  | 9.876             |                    |         |
| 18,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 190.91          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,338.14             | 2,112.52              | 225.62                  | 10.363            |                    |         |
| 18,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 192.92          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,426.80             | 2,203.28              | 223.52                  | 10.857            |                    |         |
| 18,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 194.94          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,516.31             | 2,294.77              | 221.55                  | 11.358            |                    |         |
| 18,300.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 196.96          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,606.59             | 2,386.89              | 219.70                  | 11.864            |                    |         |
| 18,400.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 198.98          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,697.55             | 2,479.58              | 217.97                  | 12.376            |                    |         |
| 18,500.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 201.00          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,789.14             | 2,572.78              | 216.35                  | 12.892            |                    |         |
| 18,600.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 203.02          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,881.28             | 2,666.44              | 214.83                  | 13.412            |                    |         |
| 18,700.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 205.04          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,973.93             | 2,760.52              | 213.41                  | 13.936            |                    |         |
| 18,800.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 207.06          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,067.04             | 2,854.97              | 212.06                  | 14.463            |                    |         |
| 18,900.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 209.08          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,160.57             | 2,949.77              | 210.80                  | 14.993            |                    |         |
| 19,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 211.10          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,254.49             | 3,044.87              | 209.61                  | 15.526            |                    |         |
| 19,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 213.12          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,348.76             | 3,140.26              | 208.49                  | 16.062            |                    |         |
| 19,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 215.15          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,443.35             | 3,235.91              | 207.44                  | 16.599            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

|                             |                           |                           |                           |                   |                |                             |                                         |               |                            |                             |                               |                           |         |
|-----------------------------|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|---------|
| <b>Offset Design</b>        |                           |                           |                           |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 5.00 ft |
| Survey Program: 10-INC-ONLY |                           |                           |                           |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                   |                           | Offset                    |                           | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                           | Warning |
| Measured<br>Depth<br>(ft)   | Vertical<br>Depth<br>(ft) | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |         |
| 19,308.27                   | 8,835.00                  | 8,753.20                  | 8,753.20                  | 217.34            | 130.93         | 90.00                       | -44.33                                  | 7,023.37      | 3,546.10                   | 3,339.73                    | 206.36                        | 17.184                    |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft  |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|----------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 10.00 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |          |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |          |
| 0.00                        | 0.00                | 0.00                | 0.00                | 0.50            | 10.00       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.50             |                       |                         |                   |                    |          |
| 100.00                      | 100.00              | 80.20               | 80.20               | 0.52            | 10.10       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,062.82              | 10.62                   | 289.452           |                    |          |
| 200.00                      | 200.00              | 180.20              | 180.20              | 0.70            | 10.58       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,062.16              | 11.28                   | 272.506           |                    |          |
| 300.00                      | 300.00              | 280.20              | 280.20              | 0.99            | 11.40       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,061.05              | 12.38                   | 248.175           |                    |          |
| 400.00                      | 400.00              | 380.20              | 380.20              | 1.31            | 12.49       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,059.63              | 13.80                   | 222.661           |                    |          |
| 500.00                      | 500.00              | 480.20              | 480.20              | 1.65            | 13.80       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,057.99              | 15.45                   | 198.947           |                    |          |
| 600.00                      | 600.00              | 580.20              | 580.20              | 1.99            | 15.27       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,056.18              | 17.26                   | 178.087           |                    |          |
| 700.00                      | 700.00              | 680.20              | 680.20              | 2.34            | 16.85       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,054.25              | 19.19                   | 160.176           |                    |          |
| 800.00                      | 800.00              | 780.20              | 780.20              | 2.69            | 18.52       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,052.23              | 21.21                   | 144.929           |                    |          |
| 900.00                      | 900.00              | 880.20              | 880.20              | 3.04            | 20.25       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,050.14              | 23.29                   | 131.954           |                    |          |
| 1,000.00                    | 1,000.00            | 980.20              | 980.20              | 3.40            | 22.03       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,048.01              | 25.43                   | 120.869           |                    |          |
| 1,100.00                    | 1,100.00            | 1,080.20            | 1,080.20            | 3.75            | 23.85       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,045.83              | 27.60                   | 111.343           |                    |          |
| 1,200.00                    | 1,200.00            | 1,180.20            | 1,180.20            | 4.11            | 25.70       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,043.62              | 29.81                   | 103.102           |                    |          |
| 1,300.00                    | 1,300.00            | 1,280.20            | 1,280.20            | 4.46            | 27.58       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,041.39              | 32.04                   | 95.922            |                    |          |
| 1,400.00                    | 1,400.00            | 1,380.20            | 1,380.20            | 4.82            | 29.47       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,039.14              | 34.29                   | 89.626            |                    |          |
| 1,500.00                    | 1,500.00            | 1,480.20            | 1,480.20            | 5.18            | 31.38       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,036.87              | 36.56                   | 84.067            |                    |          |
| 1,600.00                    | 1,600.00            | 1,580.20            | 1,580.20            | 5.53            | 33.31       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,034.59              | 38.84                   | 79.130            |                    |          |
| 1,700.00                    | 1,700.00            | 1,680.20            | 1,680.20            | 5.89            | 35.24       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,032.30              | 41.13                   | 74.720            |                    |          |
| 1,800.00                    | 1,800.00            | 1,780.20            | 1,780.20            | 6.25            | 37.19       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,030.00              | 43.43                   | 70.760            |                    |          |
| 1,900.00                    | 1,900.00            | 1,880.20            | 1,880.20            | 6.61            | 39.14       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,027.69              | 45.74                   | 67.187            |                    |          |
| 2,000.00                    | 2,000.00            | 1,980.20            | 1,980.20            | 6.96            | 41.10       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,025.37              | 48.06                   | 63.948            |                    |          |
| 2,100.00                    | 2,099.99            | 2,080.19            | 2,080.19            | 7.32            | 43.06       | 46.16                 | 2,566.83                          | 1,690.39   | 3,072.83             | 3,022.45              | 50.38                   | 60.989            |                    |          |
| 2,200.00                    | 2,199.96            | 2,180.16            | 2,180.16            | 7.68            | 45.03       | 46.21                 | 2,566.83                          | 1,690.39   | 3,071.02             | 3,018.31              | 52.71                   | 58.262            |                    |          |
| 2,300.00                    | 2,299.86            | 2,280.06            | 2,280.06            | 8.04            | 47.01       | 46.29                 | 2,566.83                          | 1,690.39   | 3,068.00             | 3,012.96              | 55.04                   | 55.741            |                    |          |
| 2,400.00                    | 2,399.68            | 2,379.88            | 2,379.88            | 8.39            | 48.98       | 46.40                 | 2,566.83                          | 1,690.39   | 3,063.78             | 3,006.41              | 57.37                   | 53.401            |                    |          |
| 2,500.00                    | 2,499.37            | 2,479.57            | 2,479.57            | 8.75            | 50.96       | 46.55                 | 2,566.83                          | 1,690.39   | 3,058.37             | 2,998.66              | 59.71                   | 51.224            |                    |          |
| 2,600.00                    | 2,598.90            | 2,579.10            | 2,579.10            | 9.11            | 52.93       | 46.73                 | 2,566.83                          | 1,690.39   | 3,051.77             | 2,989.73              | 62.04                   | 49.191            |                    |          |
| 2,700.00                    | 2,698.26            | 2,678.46            | 2,678.46            | 9.46            | 54.91       | 46.94                 | 2,566.83                          | 1,690.39   | 3,044.00             | 2,979.63              | 64.37                   | 47.288            |                    |          |
| 2,800.00                    | 2,797.40            | 2,777.60            | 2,777.60            | 9.82            | 56.88       | 47.19                 | 2,566.83                          | 1,690.39   | 3,035.07             | 2,968.37              | 66.70                   | 45.502            |                    |          |
| 2,900.00                    | 2,896.30            | 2,876.50            | 2,876.50            | 10.18           | 58.85       | 47.46                 | 2,566.83                          | 1,690.39   | 3,024.99             | 2,955.96              | 69.03                   | 43.821            |                    |          |
| 3,000.00                    | 2,994.93            | 2,975.13            | 2,975.13            | 10.54           | 60.82       | 47.78                 | 2,566.83                          | 1,690.39   | 3,013.78             | 2,942.42              | 71.36                   | 42.235            |                    |          |
| 3,100.00                    | 3,093.26            | 3,073.46            | 3,073.46            | 10.90           | 62.78       | 48.12                 | 2,566.83                          | 1,690.39   | 3,001.46             | 2,927.78              | 73.68                   | 40.736            |                    |          |
| 3,195.07                    | 3,186.42            | 3,166.62            | 3,166.62            | 11.24           | 64.65       | 48.49                 | 2,566.83                          | 1,690.39   | 2,988.74             | 2,912.86              | 75.88                   | 39.385            |                    |          |
| 3,200.00                    | 3,191.25            | 3,171.45            | 3,171.45            | 11.26           | 64.74       | 48.50                 | 2,566.83                          | 1,690.39   | 2,988.06             | 2,912.06              | 76.00                   | 39.317            |                    |          |
| 3,300.00                    | 3,289.08            | 3,269.28            | 3,269.28            | 11.62           | 66.70       | 48.80                 | 2,566.83                          | 1,690.39   | 2,974.21             | 2,895.89              | 78.32                   | 37.976            |                    |          |
| 3,400.00                    | 3,386.91            | 3,367.11            | 3,367.11            | 11.98           | 68.66       | 49.10                 | 2,566.83                          | 1,690.39   | 2,960.44             | 2,879.80              | 80.64                   | 36.713            |                    |          |
| 3,500.00                    | 3,484.74            | 3,464.94            | 3,464.94            | 12.35           | 70.62       | 49.40                 | 2,566.83                          | 1,690.39   | 2,946.75             | 2,863.79              | 82.96                   | 35.519            |                    |          |
| 3,600.00                    | 3,582.58            | 3,562.78            | 3,562.78            | 12.72           | 72.58       | 49.70                 | 2,566.83                          | 1,690.39   | 2,933.15             | 2,847.86              | 85.29                   | 34.391            |                    |          |
| 3,700.00                    | 3,680.41            | 3,660.61            | 3,660.61            | 13.09           | 74.54       | 50.00                 | 2,566.83                          | 1,690.39   | 2,919.63             | 2,832.01              | 87.62                   | 33.322            |                    |          |
| 3,800.00                    | 3,778.24            | 3,758.44            | 3,758.44            | 13.46           | 76.50       | 50.31                 | 2,566.83                          | 1,690.39   | 2,906.19             | 2,816.24              | 89.95                   | 32.309            |                    |          |
| 3,900.00                    | 3,876.08            | 3,856.28            | 3,856.28            | 13.83           | 78.46       | 50.63                 | 2,566.83                          | 1,690.39   | 2,892.84             | 2,800.56              | 92.28                   | 31.348            |                    |          |
| 4,000.00                    | 3,973.91            | 3,954.11            | 3,954.11            | 14.21           | 80.43       | 50.94                 | 2,566.83                          | 1,690.39   | 2,879.57             | 2,784.96              | 94.62                   | 30.434            |                    |          |
| 4,100.00                    | 4,071.74            | 4,051.94            | 4,051.94            | 14.58           | 82.39       | 51.26                 | 2,566.83                          | 1,690.39   | 2,866.40             | 2,769.44              | 96.95                   | 29.565            |                    |          |
| 4,200.00                    | 4,169.57            | 4,149.77            | 4,149.77            | 14.96           | 84.35       | 51.58                 | 2,566.83                          | 1,690.39   | 2,853.31             | 2,754.02              | 99.29                   | 28.736            |                    |          |
| 4,300.00                    | 4,267.41            | 4,247.61            | 4,247.61            | 15.33           | 86.32       | 51.90                 | 2,566.83                          | 1,690.39   | 2,840.31             | 2,738.68              | 101.63                  | 27.947            |                    |          |
| 4,400.00                    | 4,365.24            | 4,345.44            | 4,345.44            | 15.71           | 88.29       | 52.23                 | 2,566.83                          | 1,690.39   | 2,827.41             | 2,723.44              | 103.97                  | 27.193            |                    |          |
| 4,500.00                    | 4,463.07            | 4,443.27            | 4,443.27            | 16.09           | 90.25       | 52.55                 | 2,566.83                          | 1,690.39   | 2,814.60             | 2,708.28              | 106.32                  | 26.474            |                    |          |
| 4,600.00                    | 4,560.90            | 4,541.10            | 4,541.10            | 16.47           | 92.22       | 52.89                 | 2,566.83                          | 1,690.39   | 2,801.88             | 2,693.22              | 108.66                  | 25.785            |                    |          |
| 4,700.00                    | 4,658.74            | 4,638.94            | 4,638.94            | 16.85           | 94.19       | 53.22                 | 2,566.83                          | 1,690.39   | 2,789.26             | 2,678.26              | 111.01                  | 25.127            |                    |          |
| 4,800.00                    | 4,756.57            | 4,736.77            | 4,736.77            | 17.23           | 96.16       | 53.56                 | 2,566.83                          | 1,690.39   | 2,776.74             | 2,663.39              | 113.35                  | 24.496            |                    |          |
| 4,900.00                    | 4,854.40            | 4,834.60            | 4,834.60            | 17.61           | 98.13       | 53.90                 | 2,566.83                          | 1,690.39   | 2,764.31             | 2,648.61              | 115.70                  | 23.892            |                    |          |
| 5,000.00                    | 4,952.23            | 4,932.43            | 4,932.43            | 17.99           | 100.10      | 54.24                 | 2,566.83                          | 1,690.39   | 2,751.99             | 2,633.94              | 118.05                  | 23.312            |                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft  |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|----------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 10.00 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |          |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |          |
| 5,100.00                    | 5,050.07            | 5,030.27            | 5,030.27            | 18.37           | 102.07      | 54.59                 | 2,566.83                          | 1,690.39   | 2,739.76             | 2,619.36              | 120.40                  | 22.755            |                    |          |
| 5,200.00                    | 5,147.90            | 5,128.10            | 5,128.10            | 18.75           | 104.04      | 54.94                 | 2,566.83                          | 1,690.39   | 2,727.64             | 2,604.89              | 122.75                  | 22.221            |                    |          |
| 5,300.00                    | 5,245.73            | 5,225.93            | 5,225.93            | 19.14           | 106.01      | 55.29                 | 2,566.83                          | 1,690.39   | 2,715.62             | 2,590.52              | 125.10                  | 21.707            |                    |          |
| 5,400.00                    | 5,343.56            | 5,323.76            | 5,323.76            | 19.52           | 107.98      | 55.64                 | 2,566.83                          | 1,690.39   | 2,703.71             | 2,576.26              | 127.46                  | 21.213            |                    |          |
| 5,500.00                    | 5,441.40            | 5,421.60            | 5,421.60            | 19.90           | 109.95      | 56.00                 | 2,566.83                          | 1,690.39   | 2,691.91             | 2,562.10              | 129.81                  | 20.737            |                    |          |
| 5,600.00                    | 5,539.23            | 5,519.43            | 5,519.43            | 20.29           | 111.92      | 56.36                 | 2,566.83                          | 1,690.39   | 2,680.21             | 2,548.04              | 132.16                  | 20.280            |                    |          |
| 5,700.00                    | 5,637.06            | 5,617.26            | 5,617.26            | 20.67           | 113.89      | 56.73                 | 2,566.83                          | 1,690.39   | 2,668.62             | 2,534.10              | 134.52                  | 19.838            |                    |          |
| 5,800.00                    | 5,734.90            | 5,715.10            | 5,715.10            | 21.05           | 115.86      | 57.10                 | 2,566.83                          | 1,690.39   | 2,657.14             | 2,520.27              | 136.87                  | 19.413            |                    |          |
| 5,900.00                    | 5,832.73            | 5,812.93            | 5,812.93            | 21.44           | 117.84      | 57.47                 | 2,566.83                          | 1,690.39   | 2,645.77             | 2,506.54              | 139.23                  | 19.003            |                    |          |
| 6,000.00                    | 5,930.56            | 5,910.76            | 5,910.76            | 21.83           | 119.81      | 57.84                 | 2,566.83                          | 1,690.39   | 2,634.52             | 2,492.94              | 141.59                  | 18.607            |                    |          |
| 6,100.00                    | 6,028.39            | 6,008.59            | 6,008.59            | 22.21           | 121.78      | 58.22                 | 2,566.83                          | 1,690.39   | 2,623.38             | 2,479.44              | 143.94                  | 18.225            |                    |          |
| 6,200.00                    | 6,126.23            | 6,106.43            | 6,106.43            | 22.60           | 123.75      | 58.60                 | 2,566.83                          | 1,690.39   | 2,612.36             | 2,466.06              | 146.30                  | 17.856            |                    |          |
| 6,300.00                    | 6,224.06            | 6,204.26            | 6,204.26            | 22.98           | 125.73      | 58.98                 | 2,566.83                          | 1,690.39   | 2,601.46             | 2,452.80              | 148.66                  | 17.499            |                    |          |
| 6,400.00                    | 6,321.89            | 6,302.09            | 6,302.09            | 23.37           | 127.70      | 59.37                 | 2,566.83                          | 1,690.39   | 2,590.68             | 2,439.66              | 151.02                  | 17.155            |                    |          |
| 6,500.00                    | 6,419.72            | 6,399.92            | 6,399.92            | 23.76           | 129.67      | 59.76                 | 2,566.83                          | 1,690.39   | 2,580.02             | 2,426.64              | 153.38                  | 16.821            |                    |          |
| 6,600.00                    | 6,517.56            | 6,497.76            | 6,497.76            | 24.14           | 131.65      | 60.15                 | 2,566.83                          | 1,690.39   | 2,569.48             | 2,413.74              | 155.74                  | 16.499            |                    |          |
| 6,700.00                    | 6,615.39            | 6,595.59            | 6,595.59            | 24.53           | 133.62      | 60.54                 | 2,566.83                          | 1,690.39   | 2,559.06             | 2,400.96              | 158.10                  | 16.186            |                    |          |
| 6,800.00                    | 6,713.22            | 6,693.42            | 6,693.42            | 24.92           | 135.60      | 60.94                 | 2,566.83                          | 1,690.39   | 2,548.77             | 2,388.31              | 160.46                  | 15.884            |                    |          |
| 6,900.00                    | 6,811.05            | 6,791.25            | 6,791.25            | 25.30           | 137.57      | 61.35                 | 2,566.83                          | 1,690.39   | 2,538.61             | 2,375.79              | 162.82                  | 15.591            |                    |          |
| 7,000.00                    | 6,908.89            | 6,889.09            | 6,889.09            | 25.69           | 139.54      | 61.75                 | 2,566.83                          | 1,690.39   | 2,528.58             | 2,363.40              | 165.18                  | 15.308            |                    |          |
| 7,100.00                    | 7,006.72            | 6,986.92            | 6,986.92            | 26.08           | 141.52      | 62.16                 | 2,566.83                          | 1,690.39   | 2,518.68             | 2,351.13              | 167.55                  | 15.033            |                    |          |
| 7,200.00                    | 7,104.55            | 7,084.75            | 7,084.75            | 26.47           | 143.49      | 62.57                 | 2,566.83                          | 1,690.39   | 2,508.91             | 2,339.00              | 169.91                  | 14.766            |                    |          |
| 7,216.87                    | 7,121.05            | 7,101.25            | 7,101.25            | 26.53           | 143.83      | 62.64                 | 2,566.83                          | 1,690.39   | 2,507.27             | 2,336.96              | 170.31                  | 14.722            |                    |          |
| 7,300.00                    | 7,202.57            | 7,182.77            | 7,182.77            | 26.85           | 145.47      | 62.86                 | 2,566.83                          | 1,690.39   | 2,499.68             | 2,327.40              | 172.27                  | 14.510            |                    |          |
| 7,400.00                    | 7,301.06            | 7,281.26            | 7,281.26            | 27.23           | 147.46      | 63.11                 | 2,566.83                          | 1,690.39   | 2,491.73             | 2,317.09              | 174.64                  | 14.267            |                    |          |
| 7,500.00                    | 7,399.97            | 7,380.17            | 7,380.17            | 27.61           | 149.46      | 63.22                 | 2,566.83                          | 1,690.39   | 2,485.05             | 2,308.03              | 177.02                  | 14.038            |                    |          |
| 7,600.00                    | 7,499.23            | 7,479.43            | 7,479.43            | 27.98           | 151.46      | 63.49                 | 2,566.83                          | 1,690.39   | 2,479.60             | 2,300.21              | 179.39                  | 13.822            |                    |          |
| 7,700.00                    | 7,598.77            | 7,578.97            | 7,578.97            | 28.34           | 153.47      | 63.63                 | 2,566.83                          | 1,690.39   | 2,475.35             | 2,293.58              | 181.76                  | 13.619            |                    |          |
| 7,800.00                    | 7,698.53            | 7,678.73            | 7,678.73            | 28.70           | 155.48      | 63.73                 | 2,566.83                          | 1,690.39   | 2,472.29             | 2,288.15              | 184.13                  | 13.427            |                    |          |
| 7,900.00                    | 7,798.44            | 7,778.64            | 7,778.64            | 29.05           | 157.50      | 63.80                 | 2,566.83                          | 1,690.39   | 2,470.39             | 2,283.89              | 186.50                  | 13.246            |                    |          |
| 8,000.00                    | 7,898.42            | 7,878.62            | 7,878.62            | 29.39           | 159.52      | 63.82                 | 2,566.83                          | 1,690.39   | 2,469.66             | 2,280.79              | 188.87                  | 13.076            |                    |          |
| 8,013.58                    | 7,912.00            | 7,892.20            | 7,892.20            | 29.43           | 159.79      | 51.04                 | 2,566.83                          | 1,690.39   | 2,469.65             | 2,280.46              | 189.19                  | 13.054            |                    |          |
| 8,100.00                    | 7,998.42            | 7,978.62            | 7,978.62            | 29.73           | 161.54      | 51.04                 | 2,566.83                          | 1,690.39   | 2,469.65             | 2,278.42              | 191.22                  | 12.915            |                    |          |
| 8,200.00                    | 8,098.42            | 8,078.62            | 8,078.62            | 30.07           | 163.56      | 51.04                 | 2,566.83                          | 1,690.39   | 2,469.65             | 2,276.06              | 193.58                  | 12.757            |                    |          |
| 8,300.00                    | 8,198.42            | 8,178.62            | 8,178.62            | 30.41           | 165.58      | 51.04                 | 2,566.83                          | 1,690.39   | 2,469.65             | 2,273.70              | 195.95                  | 12.604            |                    |          |
| 8,363.62                    | 8,262.04            | 8,242.24            | 8,242.24            | 30.62           | 166.86      | 51.04                 | 2,566.83                          | 1,690.39   | 2,469.65             | 2,272.20              | 197.45                  | 12.508            |                    |          |
| 8,400.00                    | 8,298.40            | 8,278.60            | 8,278.60            | 30.75           | 167.60      | -38.69                | 2,566.83                          | 1,690.39   | 2,468.74             | 2,270.44              | 198.30                  | 12.449            |                    |          |
| 8,450.00                    | 8,348.10            | 8,328.30            | 8,328.30            | 30.91           | 168.60      | -39.03                | 2,566.83                          | 1,690.39   | 2,464.57             | 2,265.10              | 199.47                  | 12.356            |                    |          |
| 8,500.00                    | 8,397.14            | 8,377.34            | 8,377.34            | 31.07           | 169.59      | -39.66                | 2,566.83                          | 1,690.39   | 2,457.04             | 2,256.42              | 200.62                  | 12.247            |                    |          |
| 8,550.00                    | 8,445.15            | 8,425.35            | 8,425.35            | 31.23           | 170.56      | -40.57                | 2,566.83                          | 1,690.39   | 2,446.24             | 2,244.49              | 201.75                  | 12.125            |                    |          |
| 8,600.00                    | 8,491.77            | 8,471.97            | 8,471.97            | 31.38           | 171.50      | -41.80                | 2,566.83                          | 1,690.39   | 2,432.27             | 2,229.42              | 202.85                  | 11.990            |                    |          |
| 8,650.00                    | 8,536.65            | 8,516.85            | 8,516.85            | 31.52           | 172.41      | -43.36                | 2,566.83                          | 1,690.39   | 2,415.28             | 2,211.37              | 203.91                  | 11.845            |                    |          |
| 8,700.00                    | 8,579.43            | 8,559.63            | 8,559.63            | 31.66           | 173.27      | -45.28                | 2,566.83                          | 1,690.39   | 2,395.43             | 2,190.51              | 204.92                  | 11.690            |                    |          |
| 8,750.00                    | 8,619.80            | 8,600.00            | 8,600.00            | 31.80           | 174.09      | -47.56                | 2,566.83                          | 1,690.39   | 2,372.94             | 2,167.07              | 205.88                  | 11.526            |                    |          |
| 8,800.00                    | 8,657.44            | 8,637.64            | 8,637.64            | 31.93           | 174.85      | -50.25                | 2,566.83                          | 1,690.39   | 2,348.04             | 2,141.27              | 206.77                  | 11.356            |                    |          |
| 8,850.00                    | 8,692.08            | 8,672.28            | 8,672.28            | 32.06           | 175.55      | -53.35                | 2,566.83                          | 1,690.39   | 2,320.97             | 2,113.37              | 207.60                  | 11.180            |                    |          |
| 8,900.00                    | 8,723.44            | 8,703.64            | 8,703.64            | 32.19           | 176.18      | -56.88                | 2,566.83                          | 1,690.39   | 2,292.02             | 2,083.65              | 208.37                  | 11.000            |                    |          |
| 8,950.00                    | 8,751.29            | 8,731.49            | 8,731.49            | 32.34           | 176.75      | -60.81                | 2,566.83                          | 1,690.39   | 2,261.47             | 2,052.42              | 209.06                  | 10.818            |                    |          |
| 9,000.00                    | 8,775.42            | 8,755.62            | 8,755.62            | 32.50           | 177.23      | -65.10                | 2,566.83                          | 1,690.39   | 2,229.64             | 2,019.97              | 209.67                  | 10.634            |                    |          |
| 9,050.00                    | 8,795.64            | 8,775.84            | 8,775.84            | 32.67           | 177.64      | -69.70                | 2,566.83                          | 1,690.39   | 2,196.84             | 1,986.63              | 210.21                  | 10.451            |                    |          |
| 9,100.00                    | 8,811.80            | 8,792.00            | 8,792.00            | 32.87           | 177.97      | -74.49                | 2,566.83                          | 1,690.39   | 2,163.39             | 1,952.71              | 210.68                  | 10.269            |                    |          |
| 9,150.00                    | 8,823.77            | 8,803.97            | 8,803.97            | 33.10           | 178.21      | -79.36                | 2,566.83                          | 1,690.39   | 2,129.62             | 1,918.55              | 211.06                  | 10.090            |                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft  |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|----------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 10.00 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |          |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |          |
| 9,200.00                    | 8,831.47            | 8,811.67            | 8,811.67            | 33.34           | 178.36      | -84.17                | 2,566.83                          | 1,690.39   | 2,095.84             | 1,884.47              | 211.37                  | 9.915             |                    |          |
| 9,250.00                    | 8,834.84            | 8,815.04            | 8,815.04            | 33.60           | 178.43      | -88.79                | 2,566.83                          | 1,690.39   | 2,062.38             | 1,850.77              | 211.61                  | 9.746             |                    |          |
| 9,263.62                    | 8,835.00            | 8,815.20            | 8,815.20            | 33.67           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,053.35             | 1,841.69              | 211.66                  | 9.701             |                    |          |
| 9,300.00                    | 8,835.00            | 8,815.20            | 8,815.20            | 33.88           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,029.50             | 1,817.71              | 211.79                  | 9.582             |                    |          |
| 9,400.00                    | 8,835.00            | 8,815.20            | 8,815.20            | 34.53           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,965.91             | 1,753.67              | 212.25                  | 9.262             |                    |          |
| 9,500.00                    | 8,835.00            | 8,815.20            | 8,815.20            | 35.30           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,905.46             | 1,692.63              | 212.83                  | 8.953             |                    |          |
| 9,600.00                    | 8,835.00            | 8,815.20            | 8,815.20            | 36.17           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,848.44             | 1,634.88              | 213.55                  | 8.656             |                    |          |
| 9,700.00                    | 8,835.00            | 8,815.20            | 8,815.20            | 37.13           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,795.18             | 1,580.76              | 214.42                  | 8.372             |                    |          |
| 9,800.00                    | 8,835.00            | 8,815.20            | 8,815.20            | 38.18           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,746.03             | 1,530.59              | 215.44                  | 8.104             |                    |          |
| 9,900.00                    | 8,835.00            | 8,815.20            | 8,815.20            | 39.31           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,701.34             | 1,484.73              | 216.61                  | 7.855             |                    |          |
| 10,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 40.51           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,661.48             | 1,443.56              | 217.91                  | 7.625             |                    |          |
| 10,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 41.78           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,626.79             | 1,407.45              | 219.34                  | 7.417             |                    |          |
| 10,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 43.10           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,597.62             | 1,376.75              | 220.87                  | 7.233             |                    |          |
| 10,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 44.49           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,574.28             | 1,351.81              | 222.47                  | 7.076             |                    |          |
| 10,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 45.92           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,557.01             | 1,332.91              | 224.10                  | 6.948             |                    |          |
| 10,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 47.39           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,546.04             | 1,320.30              | 225.74                  | 6.849             |                    |          |
| 10,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 48.91           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,541.49             | 1,314.14              | 227.34                  | 6.780             |                    |          |
| 10,620.27                   | 8,835.00            | 8,815.20            | 8,815.20            | 49.23           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,541.35             | 1,313.69              | 227.66                  | 6.770 CC, ES      |                    |          |
| 10,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 50.47           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,543.41             | 1,314.54              | 228.87                  | 6.744             |                    |          |
| 10,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 52.06           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,551.80             | 1,321.49              | 230.30                  | 6.738 SF          |                    |          |
| 10,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 53.68           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,566.53             | 1,334.92              | 231.61                  | 6.764             |                    |          |
| 11,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 55.32           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,587.44             | 1,354.66              | 232.78                  | 6.820             |                    |          |
| 11,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 57.00           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,614.28             | 1,380.49              | 233.79                  | 6.905             |                    |          |
| 11,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 58.70           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,646.77             | 1,412.11              | 234.66                  | 7.018             |                    |          |
| 11,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 60.41           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,684.58             | 1,449.20              | 235.38                  | 7.157             |                    |          |
| 11,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 62.15           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,727.36             | 1,491.39              | 235.96                  | 7.320             |                    |          |
| 11,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 63.91           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,774.74             | 1,538.32              | 236.42                  | 7.507             |                    |          |
| 11,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 65.69           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,826.38             | 1,589.62              | 236.76                  | 7.714             |                    |          |
| 11,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 67.47           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,881.91             | 1,644.92              | 237.00                  | 7.941             |                    |          |
| 11,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 69.28           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,941.02             | 1,703.86              | 237.15                  | 8.185             |                    |          |
| 11,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 71.09           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,003.37             | 1,766.14              | 237.23                  | 8.445             |                    |          |
| 12,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 72.92           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,068.68             | 1,831.43              | 237.25                  | 8.719             |                    |          |
| 12,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 74.76           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,136.68             | 1,899.45              | 237.22                  | 9.007             |                    |          |
| 12,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 76.61           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,207.11             | 1,969.96              | 237.15                  | 9.307             |                    |          |
| 12,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 78.47           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,279.75             | 2,042.70              | 237.05                  | 9.617             |                    |          |
| 12,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 80.34           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,354.41             | 2,117.48              | 236.92                  | 9.938             |                    |          |
| 12,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 82.22           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,430.88             | 2,194.11              | 236.77                  | 10.267            |                    |          |
| 12,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 84.11           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,509.01             | 2,272.40              | 236.61                  | 10.604            |                    |          |
| 12,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 86.00           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,588.64             | 2,352.21              | 236.43                  | 10.949            |                    |          |
| 12,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 87.90           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,669.65             | 2,433.39              | 236.25                  | 11.300            |                    |          |
| 12,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 89.81           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,751.90             | 2,515.83              | 236.07                  | 11.657            |                    |          |
| 13,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 91.72           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,835.30             | 2,599.42              | 235.88                  | 12.020            |                    |          |
| 13,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 93.64           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,919.73             | 2,684.04              | 235.69                  | 12.388            |                    |          |
| 13,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 95.56           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,005.13             | 2,769.63              | 235.50                  | 12.761            |                    |          |
| 13,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 97.49           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,091.40             | 2,856.08              | 235.32                  | 13.137            |                    |          |
| 13,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 99.42           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,178.47             | 2,943.34              | 235.13                  | 13.518            |                    |          |
| 13,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 101.36          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,266.29             | 3,031.33              | 234.96                  | 13.902            |                    |          |
| 13,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 103.30          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,354.79             | 3,120.00              | 234.78                  | 14.289            |                    |          |
| 13,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 105.25          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,443.91             | 3,209.30              | 234.61                  | 14.679            |                    |          |
| 13,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 107.20          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,533.62             | 3,299.17              | 234.45                  | 15.072            |                    |          |
| 13,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 109.15          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,623.87             | 3,389.58              | 234.29                  | 15.467            |                    |          |
| 14,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 111.10          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,714.62             | 3,480.48              | 234.14                  | 15.865            |                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft  |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|----------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 10.00 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |          |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |          |
| 14,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 113.06          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,805.83             | 3,571.84              | 233.99                  | 16.265            |                    |          |
| 14,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 115.03          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,897.47             | 3,663.62              | 233.85                  | 16.667            |                    |          |
| 14,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 116.99          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,989.51             | 3,755.80              | 233.71                  | 17.070            |                    |          |
| 14,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 118.96          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,081.93             | 3,848.35              | 233.58                  | 17.476            |                    |          |
| 14,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 120.93          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,174.70             | 3,941.25              | 233.45                  | 17.883            |                    |          |
| 14,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 122.90          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,267.79             | 4,034.46              | 233.33                  | 18.291            |                    |          |
| 14,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 124.88          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,361.19             | 4,127.98              | 233.21                  | 18.700            |                    |          |
| 14,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 126.86          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,454.88             | 4,221.78              | 233.10                  | 19.111            |                    |          |
| 14,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 128.84          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,548.83             | 4,315.84              | 233.00                  | 19.523            |                    |          |
| 15,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 130.82          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,643.04             | 4,410.15              | 232.90                  | 19.936            |                    |          |
| 15,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 132.80          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,737.49             | 4,504.69              | 232.80                  | 20.350            |                    |          |
| 15,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 134.79          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,832.16             | 4,599.45              | 232.71                  | 20.765            |                    |          |
| 15,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 136.78          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,927.04             | 4,694.41              | 232.62                  | 21.181            |                    |          |
| 15,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 138.76          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,022.11             | 4,789.58              | 232.54                  | 21.597            |                    |          |
| 15,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 140.76          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,117.38             | 4,884.92              | 232.46                  | 22.014            |                    |          |
| 15,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 142.75          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,212.82             | 4,980.44              | 232.38                  | 22.432            |                    |          |
| 15,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 144.74          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,308.43             | 5,076.12              | 232.31                  | 22.850            |                    |          |
| 15,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 146.74          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,404.20             | 5,171.96              | 232.25                  | 23.269            |                    |          |
| 15,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 148.73          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,500.12             | 5,267.94              | 232.18                  | 23.689            |                    |          |
| 16,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 150.73          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,596.19             | 5,364.06              | 232.12                  | 24.109            |                    |          |
| 16,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 152.73          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,692.39             | 5,460.32              | 232.07                  | 24.529            |                    |          |
| 16,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 154.73          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,788.71             | 5,556.70              | 232.01                  | 24.950            |                    |          |
| 16,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 156.73          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,885.16             | 5,653.20              | 231.96                  | 25.371            |                    |          |
| 16,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 158.74          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,981.73             | 5,749.81              | 231.92                  | 25.792            |                    |          |
| 16,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 160.74          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,078.41             | 5,846.53              | 231.87                  | 26.214            |                    |          |
| 16,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 162.74          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,175.19             | 5,943.36              | 231.83                  | 26.636            |                    |          |
| 16,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 164.75          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,272.08             | 6,040.28              | 231.80                  | 27.059            |                    |          |
| 16,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 166.76          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,369.06             | 6,137.29              | 231.76                  | 27.481            |                    |          |
| 16,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 168.77          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,466.13             | 6,234.40              | 231.73                  | 27.904            |                    |          |
| 17,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 170.77          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,563.29             | 6,331.59              | 231.70                  | 28.327            |                    |          |
| 17,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 172.78          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,660.53             | 6,428.86              | 231.67                  | 28.750            |                    |          |
| 17,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 174.79          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,757.86             | 6,526.21              | 231.65                  | 29.173            |                    |          |
| 17,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 176.81          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,855.26             | 6,623.63              | 231.63                  | 29.596            |                    |          |
| 17,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 178.82          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,952.74             | 6,721.13              | 231.61                  | 30.019            |                    |          |
| 17,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 180.83          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,050.28             | 6,818.69              | 231.59                  | 30.443            |                    |          |
| 17,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 182.84          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,147.90             | 6,916.32              | 231.58                  | 30.866            |                    |          |
| 17,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 184.86          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,245.58             | 7,014.01              | 231.57                  | 31.289            |                    |          |
| 17,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 186.87          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,343.32             | 7,111.76              | 231.56                  | 31.713            |                    |          |
| 17,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 188.89          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,441.12             | 7,209.57              | 231.55                  | 32.136            |                    |          |
| 18,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 190.91          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,538.98             | 7,307.44              | 231.54                  | 32.560            |                    |          |
| 18,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 192.92          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,636.90             | 7,405.36              | 231.54                  | 32.983            |                    |          |
| 18,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 194.94          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,734.87             | 7,503.33              | 231.54                  | 33.407            |                    |          |
| 18,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 196.96          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,832.88             | 7,601.35              | 231.54                  | 33.830            |                    |          |
| 18,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 198.98          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,930.95             | 7,699.42              | 231.54                  | 34.253            |                    |          |
| 18,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 201.00          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,029.07             | 7,797.53              | 231.54                  | 34.677            |                    |          |
| 18,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 203.02          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,127.23             | 7,895.69              | 231.55                  | 35.100            |                    |          |
| 18,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 205.04          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,225.44             | 7,993.89              | 231.55                  | 35.523            |                    |          |
| 18,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 207.06          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,323.69             | 8,092.13              | 231.56                  | 35.946            |                    |          |
| 18,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 209.08          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,421.98             | 8,190.41              | 231.57                  | 36.369            |                    |          |
| 19,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 211.10          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,520.31             | 8,288.73              | 231.59                  | 36.791            |                    |          |
| 19,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 213.12          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,618.68             | 8,387.08              | 231.60                  | 37.214            |                    |          |
| 19,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 215.15          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,717.09             | 8,485.47              | 231.61                  | 37.636            |                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b>   |                        | Sec 14-T21S-R27E - Allied State Com 1 (Active) - Wellbore #1 - Wellbore #1 |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 0.00 ft  |
|------------------------|------------------------|----------------------------------------------------------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|----------|
| Survey Program:        |                        | 10-INC-ONLY                                                                |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 10.00 ft |
| Reference              |                        | Offset                                                                     |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                           | Warning  |
| Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Measured Depth<br>(ft)                                                     | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |          |
| 19,308.27              | 8,835.00               | 8,815.20                                                                   | 8,815.20               | 217.34            | 178.44         | -90.00                      | 2,566.83                                | 1,690.39      | 8,823.67                   | 8,592.04                    | 231.63                        | 38.093                    |          |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Site Error: | 0.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                    | Warning |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor  |         |
| 0.00                        | 0.00                | 0.00                | 0.00                | 0.50            | 0.50        | 165.02                | -1,408.43                         | 376.84     | 1,458.02             |                       |                         |                    |         |
| 100.00                      | 100.00              | 89.20               | 89.20               | 0.52            | 1.29        | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,456.17              | 1.80                    | 807.758            |         |
| 200.00                      | 200.00              | 189.20              | 189.20              | 0.70            | 2.73        | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,454.54              | 3.43                    | 424.811            |         |
| 300.00                      | 300.00              | 289.20              | 289.20              | 0.99            | 4.21        | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,452.78              | 5.20                    | 280.459            |         |
| 400.00                      | 400.00              | 389.20              | 389.20              | 1.31            | 5.70        | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,450.97              | 7.01                    | 207.982            |         |
| 500.00                      | 500.00              | 489.20              | 489.20              | 1.65            | 7.19        | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,449.14              | 8.84                    | 164.926            |         |
| 600.00                      | 600.00              | 589.20              | 589.20              | 1.99            | 8.69        | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,447.30              | 10.68                   | 136.523            |         |
| 700.00                      | 700.00              | 689.20              | 689.20              | 2.34            | 10.18       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,445.45              | 12.52                   | 116.418            |         |
| 800.00                      | 800.00              | 789.20              | 789.20              | 2.69            | 11.68       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,443.60              | 14.37                   | 101.453            |         |
| 900.00                      | 900.00              | 889.20              | 889.20              | 3.04            | 13.18       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,441.76              | 16.22                   | 89.886             |         |
| 1,000.00                    | 1,000.00            | 989.20              | 989.20              | 3.40            | 14.67       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,439.90              | 18.07                   | 80.680             |         |
| 1,100.00                    | 1,100.00            | 1,089.20            | 1,089.20            | 3.75            | 16.17       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,438.05              | 19.92                   | 73.181             |         |
| 1,200.00                    | 1,200.00            | 1,189.20            | 1,189.20            | 4.11            | 17.67       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,436.20              | 21.78                   | 66.955             |         |
| 1,300.00                    | 1,300.00            | 1,289.20            | 1,289.20            | 4.46            | 19.16       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,434.35              | 23.63                   | 61.704             |         |
| 1,400.00                    | 1,400.00            | 1,389.20            | 1,389.20            | 4.82            | 20.66       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,432.49              | 25.48                   | 57.216             |         |
| 1,500.00                    | 1,500.00            | 1,489.20            | 1,489.20            | 5.18            | 22.16       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,430.64              | 27.34                   | 53.335             |         |
| 1,600.00                    | 1,600.00            | 1,589.20            | 1,589.20            | 5.53            | 23.66       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,428.79              | 29.19                   | 49.947             |         |
| 1,700.00                    | 1,700.00            | 1,689.20            | 1,689.20            | 5.89            | 25.15       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,426.93              | 31.04                   | 46.964             |         |
| 1,800.00                    | 1,800.00            | 1,789.20            | 1,789.20            | 6.25            | 26.65       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,425.08              | 32.90                   | 44.316             |         |
| 1,900.00                    | 1,900.00            | 1,889.20            | 1,889.20            | 6.61            | 28.15       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,423.22              | 34.75                   | 41.951             |         |
| 2,000.00                    | 2,000.00            | 1,989.20            | 1,989.20            | 6.96            | 29.65       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,421.37              | 36.61                   | 39.826 CC          |         |
| 2,100.00                    | 2,099.99            | 2,089.19            | 2,089.19            | 7.32            | 31.14       | 177.80                | -1,408.43                         | 376.84     | 1,458.85             | 1,420.38              | 38.46                   | 37.928 ES          |         |
| 2,200.00                    | 2,199.96            | 2,189.16            | 2,189.16            | 7.68            | 32.64       | 177.80                | -1,408.43                         | 376.84     | 1,461.46             | 1,421.15              | 40.32                   | 36.249             |         |
| 2,300.00                    | 2,299.86            | 2,289.06            | 2,289.06            | 8.04            | 34.14       | 177.81                | -1,408.43                         | 376.84     | 1,465.82             | 1,423.65              | 42.17                   | 34.759             |         |
| 2,400.00                    | 2,399.68            | 2,388.88            | 2,388.88            | 8.39            | 35.63       | 177.82                | -1,408.43                         | 376.84     | 1,471.92             | 1,427.90              | 44.02                   | 33.435             |         |
| 2,500.00                    | 2,499.37            | 2,488.57            | 2,488.57            | 8.75            | 37.12       | 177.82                | -1,408.43                         | 376.84     | 1,479.76             | 1,433.89              | 45.87                   | 32.258             |         |
| 2,600.00                    | 2,598.90            | 2,588.10            | 2,588.10            | 9.11            | 38.61       | 177.84                | -1,408.43                         | 376.84     | 1,489.34             | 1,441.62              | 47.72                   | 31.210             |         |
| 2,700.00                    | 2,698.26            | 2,687.46            | 2,687.46            | 9.46            | 40.10       | 177.85                | -1,408.43                         | 376.84     | 1,500.65             | 1,451.09              | 49.57                   | 30.276             |         |
| 2,800.00                    | 2,797.40            | 2,786.60            | 2,786.60            | 9.82            | 41.59       | 177.86                | -1,408.43                         | 376.84     | 1,513.70             | 1,462.29              | 51.41                   | 29.446             |         |
| 2,900.00                    | 2,896.30            | 2,885.50            | 2,885.50            | 10.18           | 43.07       | 177.88                | -1,408.43                         | 376.84     | 1,528.47             | 1,475.22              | 53.24                   | 28.707             |         |
| 3,000.00                    | 2,994.93            | 2,984.13            | 2,984.13            | 10.54           | 44.54       | 177.89                | -1,408.43                         | 376.84     | 1,544.96             | 1,489.88              | 55.08                   | 28.051             |         |
| 3,100.00                    | 3,093.26            | 3,082.46            | 3,082.46            | 10.90           | 46.02       | 177.91                | -1,408.43                         | 376.84     | 1,563.17             | 1,506.26              | 56.91                   | 27.469             |         |
| 3,195.07                    | 3,186.42            | 3,175.62            | 3,175.62            | 11.24           | 47.41       | 177.93                | -1,408.43                         | 376.84     | 1,582.07             | 1,523.43              | 58.64                   | 26.979             |         |
| 3,200.00                    | 3,191.25            | 3,180.45            | 3,180.45            | 11.26           | 47.48       | 177.93                | -1,408.43                         | 376.84     | 1,583.09             | 1,524.36              | 58.73                   | 26.955             |         |
| 3,300.00                    | 3,289.08            | 3,278.28            | 3,278.28            | 11.62           | 48.95       | 177.96                | -1,408.43                         | 376.84     | 1,603.79             | 1,543.23              | 60.55                   | 26.486             |         |
| 3,400.00                    | 3,386.91            | 3,376.11            | 3,376.11            | 11.98           | 50.41       | 177.98                | -1,408.43                         | 376.84     | 1,624.48             | 1,562.11              | 62.38                   | 26.043             |         |
| 3,500.00                    | 3,484.74            | 3,473.94            | 3,473.94            | 12.35           | 51.88       | 178.01                | -1,408.43                         | 376.84     | 1,645.18             | 1,580.98              | 64.20                   | 25.626             |         |
| 3,600.00                    | 3,582.58            | 3,571.78            | 3,571.78            | 12.72           | 53.35       | 178.03                | -1,408.43                         | 376.84     | 1,665.87             | 1,599.85              | 66.03                   | 25.231             |         |
| 3,700.00                    | 3,680.41            | 3,669.61            | 3,669.61            | 13.09           | 54.81       | 178.06                | -1,408.43                         | 376.84     | 1,686.57             | 1,618.71              | 67.85                   | 24.857             |         |
| 3,800.00                    | 3,778.24            | 3,767.44            | 3,767.44            | 13.46           | 56.28       | 178.08                | -1,408.43                         | 376.84     | 1,707.26             | 1,637.58              | 69.68                   | 24.502             |         |
| 3,900.00                    | 3,876.08            | 3,865.28            | 3,865.28            | 13.83           | 57.74       | 178.10                | -1,408.43                         | 376.84     | 1,727.96             | 1,656.45              | 71.51                   | 24.164             |         |
| 4,000.00                    | 3,973.91            | 3,963.11            | 3,963.11            | 14.21           | 59.21       | 178.13                | -1,408.43                         | 376.84     | 1,748.65             | 1,675.32              | 73.34                   | 23.844             |         |
| 4,100.00                    | 4,071.74            | 4,060.94            | 4,060.94            | 14.58           | 60.67       | 178.15                | -1,408.43                         | 376.84     | 1,769.35             | 1,694.18              | 75.17                   | 23.539             |         |
| 4,200.00                    | 4,169.57            | 4,158.77            | 4,158.77            | 14.96           | 62.14       | 178.17                | -1,408.43                         | 376.84     | 1,790.05             | 1,713.05              | 77.00                   | 23.248             |         |
| 4,300.00                    | 4,267.41            | 4,256.61            | 4,256.61            | 15.33           | 63.60       | 178.19                | -1,408.43                         | 376.84     | 1,810.74             | 1,731.91              | 78.83                   | 22.970             |         |
| 4,400.00                    | 4,365.24            | 4,354.44            | 4,354.44            | 15.71           | 65.07       | 178.21                | -1,408.43                         | 376.84     | 1,831.44             | 1,750.78              | 80.66                   | 22.705             |         |
| 4,500.00                    | 4,463.07            | 4,452.27            | 4,452.27            | 16.09           | 66.53       | 178.23                | -1,408.43                         | 376.84     | 1,852.14             | 1,769.64              | 82.50                   | 22.451             |         |
| 4,600.00                    | 4,560.90            | 4,550.10            | 4,550.10            | 16.47           | 68.00       | 178.25                | -1,408.43                         | 376.84     | 1,872.84             | 1,788.51              | 84.33                   | 22.208             |         |
| 4,700.00                    | 4,658.74            | 4,647.94            | 4,647.94            | 16.85           | 69.46       | 178.27                | -1,408.43                         | 376.84     | 1,893.53             | 1,807.37              | 86.17                   | 21.976             |         |
| 4,800.00                    | 4,756.57            | 4,745.77            | 4,745.77            | 17.23           | 70.93       | 178.29                | -1,408.43                         | 376.84     | 1,914.23             | 1,826.23              | 88.00                   | 21.753             |         |
| 4,900.00                    | 4,854.40            | 4,843.60            | 4,843.60            | 17.61           | 72.39       | 178.31                | -1,408.43                         | 376.84     | 1,934.93             | 1,845.09              | 89.84                   | 21.539             |         |
| 5,000.00                    | 4,952.23            | 4,941.43            | 4,941.43            | 17.99           | 73.86       | 178.32                | -1,408.43                         | 376.84     | 1,955.63             | 1,863.96              | 91.67                   | 21.333             |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                    | 5,050.07            | 5,039.27            | 5,039.27            | 18.37           | 75.32       | 178.34                | -1,408.43                         | 376.84     | 1,976.33             | 1,882.82              | 93.51                   | 21.135            |                    |         |
| 5,200.00                    | 5,147.90            | 5,137.10            | 5,137.10            | 18.75           | 76.79       | 178.36                | -1,408.43                         | 376.84     | 1,997.03             | 1,901.68              | 95.34                   | 20.945            |                    |         |
| 5,300.00                    | 5,245.73            | 5,234.93            | 5,234.93            | 19.14           | 78.25       | 178.38                | -1,408.43                         | 376.84     | 2,017.72             | 1,920.54              | 97.18                   | 20.762            |                    |         |
| 5,400.00                    | 5,343.56            | 5,332.76            | 5,332.76            | 19.52           | 79.72       | 178.39                | -1,408.43                         | 376.84     | 2,038.42             | 1,939.40              | 99.02                   | 20.586            |                    |         |
| 5,500.00                    | 5,441.40            | 5,430.60            | 5,430.60            | 19.90           | 81.18       | 178.41                | -1,408.43                         | 376.84     | 2,059.12             | 1,958.27              | 100.86                  | 20.416            |                    |         |
| 5,600.00                    | 5,539.23            | 5,528.43            | 5,528.43            | 20.29           | 82.65       | 178.42                | -1,408.43                         | 376.84     | 2,079.82             | 1,977.13              | 102.70                  | 20.252            |                    |         |
| 5,700.00                    | 5,637.06            | 5,626.26            | 5,626.26            | 20.67           | 84.11       | 178.44                | -1,408.43                         | 376.84     | 2,100.52             | 1,995.99              | 104.53                  | 20.094            |                    |         |
| 5,800.00                    | 5,734.90            | 5,724.10            | 5,724.10            | 21.05           | 85.58       | 178.46                | -1,408.43                         | 376.84     | 2,121.22             | 2,014.85              | 106.37                  | 19.941            |                    |         |
| 5,900.00                    | 5,832.73            | 5,821.93            | 5,821.93            | 21.44           | 87.04       | 178.47                | -1,408.43                         | 376.84     | 2,141.92             | 2,033.71              | 108.21                  | 19.794            |                    |         |
| 6,000.00                    | 5,930.56            | 5,919.76            | 5,919.76            | 21.83           | 88.51       | 178.48                | -1,408.43                         | 376.84     | 2,162.62             | 2,052.57              | 110.05                  | 19.651            |                    |         |
| 6,100.00                    | 6,028.39            | 6,017.59            | 6,017.59            | 22.21           | 89.97       | 178.50                | -1,408.43                         | 376.84     | 2,183.32             | 2,071.43              | 111.89                  | 19.513            |                    |         |
| 6,200.00                    | 6,126.23            | 6,115.43            | 6,115.43            | 22.60           | 91.44       | 178.51                | -1,408.43                         | 376.84     | 2,204.02             | 2,090.29              | 113.73                  | 19.379            |                    |         |
| 6,300.00                    | 6,224.06            | 6,213.26            | 6,213.26            | 22.98           | 92.90       | 178.53                | -1,408.43                         | 376.84     | 2,224.72             | 2,109.15              | 115.57                  | 19.250            |                    |         |
| 6,400.00                    | 6,321.89            | 6,311.09            | 6,311.09            | 23.37           | 94.37       | 178.54                | -1,408.43                         | 376.84     | 2,245.42             | 2,128.01              | 117.41                  | 19.124            |                    |         |
| 6,500.00                    | 6,419.72            | 6,408.92            | 6,408.92            | 23.76           | 95.83       | 178.55                | -1,408.43                         | 376.84     | 2,266.12             | 2,146.87              | 119.25                  | 19.003            |                    |         |
| 6,600.00                    | 6,517.56            | 6,506.76            | 6,506.76            | 24.14           | 97.30       | 178.57                | -1,408.43                         | 376.84     | 2,286.82             | 2,165.73              | 121.09                  | 18.885            |                    |         |
| 6,700.00                    | 6,615.39            | 6,604.59            | 6,604.59            | 24.53           | 98.76       | 178.58                | -1,408.43                         | 376.84     | 2,307.52             | 2,184.59              | 122.93                  | 18.770            |                    |         |
| 6,800.00                    | 6,713.22            | 6,702.42            | 6,702.42            | 24.92           | 100.23      | 178.59                | -1,408.43                         | 376.84     | 2,328.22             | 2,203.45              | 124.78                  | 18.659            |                    |         |
| 6,900.00                    | 6,811.05            | 6,800.25            | 6,800.25            | 25.30           | 101.70      | 178.60                | -1,408.43                         | 376.84     | 2,348.92             | 2,222.31              | 126.62                  | 18.551            |                    |         |
| 7,000.00                    | 6,908.89            | 6,898.09            | 6,898.09            | 25.69           | 103.16      | 178.62                | -1,408.43                         | 376.84     | 2,369.63             | 2,241.17              | 128.46                  | 18.446            |                    |         |
| 7,100.00                    | 7,006.72            | 6,995.92            | 6,995.92            | 26.08           | 104.63      | 178.63                | -1,408.43                         | 376.84     | 2,390.33             | 2,260.03              | 130.30                  | 18.345            |                    |         |
| 7,200.00                    | 7,104.55            | 7,093.75            | 7,093.75            | 26.47           | 106.09      | 178.64                | -1,408.43                         | 376.84     | 2,411.03             | 2,278.88              | 132.14                  | 18.246            |                    |         |
| 7,216.87                    | 7,121.05            | 7,110.25            | 7,110.25            | 26.53           | 106.34      | 178.64                | -1,408.43                         | 376.84     | 2,414.52             | 2,282.07              | 132.45                  | 18.229            |                    |         |
| 7,300.00                    | 7,202.57            | 7,191.77            | 7,191.77            | 26.85           | 107.56      | 178.66                | -1,408.43                         | 376.84     | 2,430.84             | 2,296.86              | 133.99                  | 18.142            |                    |         |
| 7,400.00                    | 7,301.06            | 7,290.26            | 7,290.26            | 27.23           | 109.03      | 178.67                | -1,408.43                         | 376.84     | 2,448.12             | 2,312.29              | 135.84                  | 18.023            |                    |         |
| 7,500.00                    | 7,399.97            | 7,389.17            | 7,389.17            | 27.61           | 110.51      | 178.69                | -1,408.43                         | 376.84     | 2,462.82             | 2,325.13              | 137.69                  | 17.887            |                    |         |
| 7,600.00                    | 7,499.23            | 7,488.43            | 7,488.43            | 27.98           | 112.00      | 178.70                | -1,408.43                         | 376.84     | 2,474.92             | 2,335.38              | 139.54                  | 17.736            |                    |         |
| 7,700.00                    | 7,598.77            | 7,587.97            | 7,587.97            | 28.34           | 113.49      | 178.71                | -1,408.43                         | 376.84     | 2,484.42             | 2,343.03              | 141.39                  | 17.571            |                    |         |
| 7,800.00                    | 7,698.53            | 7,687.73            | 7,687.73            | 28.70           | 114.99      | 178.71                | -1,408.43                         | 376.84     | 2,491.32             | 2,348.07              | 143.24                  | 17.392            |                    |         |
| 7,900.00                    | 7,798.44            | 7,787.64            | 7,787.64            | 29.05           | 116.48      | 178.71                | -1,408.43                         | 376.84     | 2,495.60             | 2,350.51              | 145.09                  | 17.200            |                    |         |
| 8,000.00                    | 7,898.42            | 7,887.62            | 7,887.62            | 29.39           | 117.98      | 178.72                | -1,408.43                         | 376.84     | 2,497.26             | 2,350.33              | 146.94                  | 16.996            |                    |         |
| 8,013.58                    | 7,912.00            | 7,901.20            | 7,901.20            | 29.43           | 118.18      | 165.94                | -1,408.43                         | 376.84     | 2,497.29             | 2,350.10              | 147.19                  | 16.967            |                    |         |
| 8,100.00                    | 7,998.42            | 7,987.62            | 7,987.62            | 29.73           | 119.48      | 165.94                | -1,408.43                         | 376.84     | 2,497.29             | 2,348.51              | 148.78                  | 16.785            |                    |         |
| 8,200.00                    | 8,098.42            | 8,087.62            | 8,087.62            | 30.07           | 120.98      | 165.94                | -1,408.43                         | 376.84     | 2,497.29             | 2,346.67              | 150.62                  | 16.580            |                    |         |
| 8,300.00                    | 8,198.42            | 8,187.62            | 8,187.62            | 30.41           | 122.47      | 165.94                | -1,408.43                         | 376.84     | 2,497.29             | 2,344.83              | 152.46                  | 16.380            |                    |         |
| 8,363.62                    | 8,262.04            | 8,251.24            | 8,251.24            | 30.62           | 123.43      | 165.94                | -1,408.43                         | 376.84     | 2,497.29             | 2,343.65              | 153.63                  | 16.255            |                    |         |
| 8,400.00                    | 8,298.40            | 8,287.60            | 8,287.60            | 30.75           | 123.97      | 76.33                 | -1,408.43                         | 376.84     | 2,497.01             | 2,342.72              | 154.30                  | 16.183            |                    |         |
| 8,450.00                    | 8,348.10            | 8,337.30            | 8,337.30            | 30.91           | 124.71      | 76.57                 | -1,408.43                         | 376.84     | 2,495.75             | 2,340.55              | 155.20                  | 16.081            |                    |         |
| 8,500.00                    | 8,397.14            | 8,386.34            | 8,386.34            | 31.07           | 125.45      | 77.00                 | -1,408.43                         | 376.84     | 2,493.50             | 2,337.41              | 156.09                  | 15.974            |                    |         |
| 8,550.00                    | 8,445.15            | 8,434.35            | 8,434.35            | 31.23           | 126.17      | 77.61                 | -1,408.43                         | 376.84     | 2,490.33             | 2,333.36              | 156.97                  | 15.865            |                    |         |
| 8,600.00                    | 8,491.77            | 8,480.97            | 8,480.97            | 31.38           | 126.87      | 78.39                 | -1,408.43                         | 376.84     | 2,486.32             | 2,328.50              | 157.82                  | 15.754            |                    |         |
| 8,650.00                    | 8,536.65            | 8,525.85            | 8,525.85            | 31.52           | 127.54      | 79.30                 | -1,408.43                         | 376.84     | 2,481.59             | 2,322.95              | 158.64                  | 15.643            |                    |         |
| 8,700.00                    | 8,579.43            | 8,568.63            | 8,568.63            | 31.66           | 128.18      | 80.33                 | -1,408.43                         | 376.84     | 2,476.28             | 2,316.85              | 159.43                  | 15.532            |                    |         |
| 8,750.00                    | 8,619.80            | 8,609.00            | 8,609.00            | 31.80           | 128.78      | 81.45                 | -1,408.43                         | 376.84     | 2,470.54             | 2,310.35              | 160.19                  | 15.423            |                    |         |
| 8,800.00                    | 8,657.44            | 8,646.64            | 8,646.64            | 31.93           | 129.35      | 82.62                 | -1,408.43                         | 376.84     | 2,464.54             | 2,303.63              | 160.91                  | 15.317            |                    |         |
| 8,850.00                    | 8,692.08            | 8,681.28            | 8,681.28            | 32.06           | 129.87      | 83.81                 | -1,408.43                         | 376.84     | 2,458.45             | 2,296.86              | 161.59                  | 15.214            |                    |         |
| 8,900.00                    | 8,723.44            | 8,712.64            | 8,712.64            | 32.19           | 130.34      | 84.98                 | -1,408.43                         | 376.84     | 2,452.44             | 2,290.22              | 162.23                  | 15.117            |                    |         |
| 8,950.00                    | 8,751.29            | 8,740.49            | 8,740.49            | 32.34           | 130.75      | 86.10                 | -1,408.43                         | 376.84     | 2,446.71             | 2,283.88              | 162.83                  | 15.027            |                    |         |
| 9,000.00                    | 8,775.42            | 8,764.62            | 8,764.62            | 32.50           | 131.11      | 87.13                 | -1,408.43                         | 376.84     | 2,441.41             | 2,278.03              | 163.39                  | 14.942            |                    |         |
| 9,050.00                    | 8,795.64            | 8,784.84            | 8,784.84            | 32.67           | 131.42      | 88.04                 | -1,408.43                         | 376.84     | 2,436.71             | 2,272.80              | 163.91                  | 14.866            |                    |         |
| 9,100.00                    | 8,811.80            | 8,801.00            | 8,801.00            | 32.87           | 131.66      | 88.80                 | -1,408.43                         | 376.84     | 2,432.74             | 2,268.35              | 164.39                  | 14.799            |                    |         |
| 9,150.00                    | 8,823.77            | 8,812.97            | 8,812.97            | 33.10           | 131.84      | 89.38                 | -1,408.43                         | 376.84     | 2,429.61             | 2,264.79              | 164.82                  | 14.741            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,200.00                    | 8,831.47            | 8,820.67            | 8,820.67            | 33.34           | 131.95      | 89.78                 | -1,408.43                         | 376.84     | 2,427.42             | 2,262.21              | 165.21                  | 14.693            |                    |         |
| 9,250.00                    | 8,834.84            | 8,824.04            | 8,824.04            | 33.60           | 132.00      | 89.98                 | -1,408.43                         | 376.84     | 2,426.23             | 2,260.68              | 165.55                  | 14.656            |                    |         |
| 9,263.62                    | 8,835.00            | 8,824.20            | 8,824.20            | 33.67           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,426.08             | 2,260.45              | 165.63                  | 14.647            |                    |         |
| 9,283.05                    | 8,835.00            | 8,824.20            | 8,824.20            | 33.78           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,426.01             | 2,260.26              | 165.75                  | 14.636            |                    |         |
| 9,300.00                    | 8,835.00            | 8,824.20            | 8,824.20            | 33.88           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,426.07             | 2,260.21              | 165.85                  | 14.628            |                    |         |
| 9,400.00                    | 8,835.00            | 8,824.20            | 8,824.20            | 34.53           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,428.82             | 2,262.29              | 166.53                  | 14.585            |                    |         |
| 9,500.00                    | 8,835.00            | 8,824.20            | 8,824.20            | 35.30           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,435.69             | 2,268.39              | 167.30                  | 14.559            |                    |         |
| 9,600.00                    | 8,835.00            | 8,824.20            | 8,824.20            | 36.17           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,446.62             | 2,278.48              | 168.14                  | 14.551 SF         |                    |         |
| 9,700.00                    | 8,835.00            | 8,824.20            | 8,824.20            | 37.13           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,461.58             | 2,292.54              | 169.04                  | 14.562            |                    |         |
| 9,800.00                    | 8,835.00            | 8,824.20            | 8,824.20            | 38.18           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,480.47             | 2,310.49              | 169.98                  | 14.593            |                    |         |
| 9,900.00                    | 8,835.00            | 8,824.20            | 8,824.20            | 39.31           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,503.22             | 2,332.28              | 170.95                  | 14.643            |                    |         |
| 10,000.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 40.51           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,529.73             | 2,357.80              | 171.93                  | 14.714            |                    |         |
| 10,100.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 41.78           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,559.87             | 2,386.95              | 172.91                  | 14.804            |                    |         |
| 10,200.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 43.10           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,593.51             | 2,419.62              | 173.89                  | 14.914            |                    |         |
| 10,300.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 44.49           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,630.53             | 2,455.68              | 174.85                  | 15.044            |                    |         |
| 10,400.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 45.92           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,670.78             | 2,494.99              | 175.79                  | 15.193            |                    |         |
| 10,500.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 47.39           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,714.12             | 2,537.42              | 176.70                  | 15.360            |                    |         |
| 10,600.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 48.91           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,760.41             | 2,582.83              | 177.58                  | 15.545            |                    |         |
| 10,700.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 50.47           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,809.49             | 2,631.07              | 178.42                  | 15.746            |                    |         |
| 10,800.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 52.06           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,861.23             | 2,682.01              | 179.22                  | 15.965            |                    |         |
| 10,900.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 53.68           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,915.48             | 2,735.49              | 179.99                  | 16.198            |                    |         |
| 11,000.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 55.32           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,972.11             | 2,791.40              | 180.71                  | 16.447            |                    |         |
| 11,100.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 57.00           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,030.97             | 2,849.58              | 181.40                  | 16.709            |                    |         |
| 11,200.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 58.70           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,091.96             | 2,909.91              | 182.04                  | 16.985            |                    |         |
| 11,300.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 60.41           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,154.93             | 2,972.28              | 182.65                  | 17.273            |                    |         |
| 11,400.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 62.15           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,219.78             | 3,036.56              | 183.22                  | 17.573            |                    |         |
| 11,500.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 63.91           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,286.39             | 3,102.63              | 183.76                  | 17.884            |                    |         |
| 11,600.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 65.69           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,354.66             | 3,170.40              | 184.26                  | 18.206            |                    |         |
| 11,700.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 67.47           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,424.49             | 3,239.76              | 184.74                  | 18.537            |                    |         |
| 11,800.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 69.28           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,495.79             | 3,310.61              | 185.18                  | 18.878            |                    |         |
| 11,900.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 71.09           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,568.46             | 3,382.87              | 185.60                  | 19.227            |                    |         |
| 12,000.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 72.92           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,642.43             | 3,456.45              | 185.99                  | 19.585            |                    |         |
| 12,100.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 74.76           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,717.62             | 3,531.27              | 186.35                  | 19.950            |                    |         |
| 12,200.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 76.61           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,793.95             | 3,607.26              | 186.69                  | 20.322            |                    |         |
| 12,300.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 78.47           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,871.37             | 3,684.35              | 187.01                  | 20.701            |                    |         |
| 12,400.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 80.34           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,949.79             | 3,762.48              | 187.31                  | 21.087            |                    |         |
| 12,500.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 82.22           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,029.18             | 3,841.58              | 187.60                  | 21.478            |                    |         |
| 12,600.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 84.11           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,109.46             | 3,921.60              | 187.86                  | 21.875            |                    |         |
| 12,700.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 86.00           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,190.59             | 4,002.48              | 188.11                  | 22.277            |                    |         |
| 12,800.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 87.90           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,272.52             | 4,084.17              | 188.35                  | 22.684            |                    |         |
| 12,900.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 89.81           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,355.21             | 4,166.64              | 188.57                  | 23.096            |                    |         |
| 13,000.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 91.72           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,438.60             | 4,249.83              | 188.77                  | 23.513            |                    |         |
| 13,100.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 93.64           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,522.68             | 4,333.71              | 188.97                  | 23.933            |                    |         |
| 13,200.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 95.56           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,607.38             | 4,418.23              | 189.16                  | 24.358            |                    |         |
| 13,300.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 97.49           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,692.69             | 4,503.36              | 189.33                  | 24.786            |                    |         |
| 13,400.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 99.42           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,778.57             | 4,589.08              | 189.50                  | 25.217            |                    |         |
| 13,500.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 101.36          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,864.99             | 4,675.34              | 189.65                  | 25.652            |                    |         |
| 13,600.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 103.30          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,951.92             | 4,762.12              | 189.80                  | 26.090            |                    |         |
| 13,700.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 105.25          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 5,039.34             | 4,849.39              | 189.94                  | 26.531            |                    |         |
| 13,800.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 107.20          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 5,127.21             | 4,937.13              | 190.08                  | 26.974            |                    |         |
| 13,900.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 109.15          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 5,215.53             | 5,025.32              | 190.21                  | 27.420            |                    |         |
| 14,000.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 111.10          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 5,304.25             | 5,113.92              | 190.33                  | 27.869            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                |                |                |                 |        |                   |                        |            |                 |                  |                    |                   | Sec 14-T21S-R27E - Esperanza 14 State #001 (Active) - Wellbore #1 - Wellbore #1 |  | Offset Site Error: |  | 0.00 ft |
|-----------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|--------------------|-------------------|---------------------------------------------------------------------------------|--|--------------------|--|---------|
| Survey Program: 10-INC-ONLY |                |                |                |                 |        |                   |                        |            |                 |                  |                    |                   |                                                                                 |  | Offset Well Error: |  | 0.50 ft |
| Reference                   |                | Offset         |                | Semi Major Axis |        |                   | Distance               |            |                 |                  |                    |                   |                                                                                 |  |                    |  |         |
| Measured Depth              | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre |            | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | Warning                                                                         |  |                    |  |         |
| (ft)                        | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft) | (ft)            | (ft)             | (ft)               |                   |                                                                                 |  |                    |  |         |
| 14,100.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 113.06          | 132.01 | 90.00             | -1,408.43              | 376.84     | 5,393.37        | 5,202.93         | 190.45             | 28.320            |                                                                                 |  |                    |  |         |
| 14,200.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 115.03          | 132.01 | 90.00             | -1,408.43              | 376.84     | 5,482.87        | 5,292.31         | 190.56             | 28.773            |                                                                                 |  |                    |  |         |
| 14,300.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 116.99          | 132.01 | 90.00             | -1,408.43              | 376.84     | 5,572.73        | 5,382.06         | 190.67             | 29.228            |                                                                                 |  |                    |  |         |
| 14,400.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 118.96          | 132.01 | 90.00             | -1,408.43              | 376.84     | 5,662.92        | 5,472.15         | 190.77             | 29.685            |                                                                                 |  |                    |  |         |
| 14,500.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 120.93          | 132.01 | 90.00             | -1,408.43              | 376.84     | 5,753.44        | 5,562.57         | 190.87             | 30.144            |                                                                                 |  |                    |  |         |
| 14,600.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 122.90          | 132.01 | 90.00             | -1,408.43              | 376.84     | 5,844.27        | 5,653.30         | 190.96             | 30.604            |                                                                                 |  |                    |  |         |
| 14,700.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 124.88          | 132.01 | 90.00             | -1,408.43              | 376.84     | 5,935.39        | 5,744.33         | 191.05             | 31.067            |                                                                                 |  |                    |  |         |
| 14,800.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 126.86          | 132.01 | 90.00             | -1,408.43              | 376.84     | 6,026.79        | 5,835.65         | 191.14             | 31.531            |                                                                                 |  |                    |  |         |
| 14,900.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 128.84          | 132.01 | 90.00             | -1,408.43              | 376.84     | 6,118.46        | 5,927.24         | 191.23             | 31.996            |                                                                                 |  |                    |  |         |
| 15,000.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 130.82          | 132.01 | 90.00             | -1,408.43              | 376.84     | 6,210.39        | 6,019.09         | 191.31             | 32.463            |                                                                                 |  |                    |  |         |
| 15,100.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 132.80          | 132.01 | 90.00             | -1,408.43              | 376.84     | 6,302.57        | 6,111.18         | 191.39             | 32.931            |                                                                                 |  |                    |  |         |
| 15,200.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 134.79          | 132.01 | 90.00             | -1,408.43              | 376.84     | 6,394.98        | 6,203.51         | 191.47             | 33.400            |                                                                                 |  |                    |  |         |
| 15,300.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 136.78          | 132.01 | 90.00             | -1,408.43              | 376.84     | 6,487.62        | 6,296.08         | 191.54             | 33.871            |                                                                                 |  |                    |  |         |
| 15,400.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 138.76          | 132.01 | 90.00             | -1,408.43              | 376.84     | 6,580.47        | 6,388.85         | 191.61             | 34.342            |                                                                                 |  |                    |  |         |
| 15,500.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 140.76          | 132.01 | 90.00             | -1,408.43              | 376.84     | 6,673.53        | 6,481.84         | 191.69             | 34.815            |                                                                                 |  |                    |  |         |
| 15,600.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 142.75          | 132.01 | 90.00             | -1,408.43              | 376.84     | 6,766.78        | 6,575.03         | 191.76             | 35.289            |                                                                                 |  |                    |  |         |
| 15,700.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 144.74          | 132.01 | 90.00             | -1,408.43              | 376.84     | 6,860.23        | 6,668.40         | 191.82             | 35.763            |                                                                                 |  |                    |  |         |
| 15,800.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 146.74          | 132.01 | 90.00             | -1,408.43              | 376.84     | 6,953.86        | 6,761.97         | 191.89             | 36.239            |                                                                                 |  |                    |  |         |
| 15,900.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 148.73          | 132.01 | 90.00             | -1,408.43              | 376.84     | 7,047.66        | 6,855.70         | 191.96             | 36.715            |                                                                                 |  |                    |  |         |
| 16,000.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 150.73          | 132.01 | 90.00             | -1,408.43              | 376.84     | 7,141.63        | 6,949.61         | 192.02             | 37.192            |                                                                                 |  |                    |  |         |
| 16,100.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 152.73          | 132.01 | 90.00             | -1,408.43              | 376.84     | 7,235.76        | 7,043.68         | 192.08             | 37.670            |                                                                                 |  |                    |  |         |
| 16,200.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 154.73          | 132.01 | 90.00             | -1,408.43              | 376.84     | 7,330.05        | 7,137.91         | 192.14             | 38.149            |                                                                                 |  |                    |  |         |
| 16,300.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 156.73          | 132.01 | 90.00             | -1,408.43              | 376.84     | 7,424.49        | 7,232.29         | 192.20             | 38.628            |                                                                                 |  |                    |  |         |
| 16,400.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 158.74          | 132.01 | 90.00             | -1,408.43              | 376.84     | 7,519.07        | 7,326.81         | 192.26             | 39.108            |                                                                                 |  |                    |  |         |
| 16,500.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 160.74          | 132.01 | 90.00             | -1,408.43              | 376.84     | 7,613.79        | 7,421.47         | 192.32             | 39.588            |                                                                                 |  |                    |  |         |
| 16,600.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 162.74          | 132.01 | 90.00             | -1,408.43              | 376.84     | 7,708.65        | 7,516.26         | 192.38             | 40.069            |                                                                                 |  |                    |  |         |
| 16,700.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 164.75          | 132.01 | 90.00             | -1,408.43              | 376.84     | 7,803.63        | 7,611.19         | 192.44             | 40.551            |                                                                                 |  |                    |  |         |
| 16,800.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 166.76          | 132.01 | 90.00             | -1,408.43              | 376.84     | 7,898.73        | 7,706.24         | 192.50             | 41.033            |                                                                                 |  |                    |  |         |
| 16,900.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 168.77          | 132.01 | 90.00             | -1,408.43              | 376.84     | 7,993.96        | 7,801.41         | 192.55             | 41.516            |                                                                                 |  |                    |  |         |
| 17,000.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 170.77          | 132.01 | 90.00             | -1,408.43              | 376.84     | 8,089.30        | 7,896.69         | 192.61             | 41.998            |                                                                                 |  |                    |  |         |
| 17,100.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 172.78          | 132.01 | 90.00             | -1,408.43              | 376.84     | 8,184.75        | 7,992.09         | 192.67             | 42.482            |                                                                                 |  |                    |  |         |
| 17,200.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 174.79          | 132.01 | 90.00             | -1,408.43              | 376.84     | 8,280.31        | 8,087.59         | 192.72             | 42.965            |                                                                                 |  |                    |  |         |
| 17,300.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 176.81          | 132.01 | 90.00             | -1,408.43              | 376.84     | 8,375.98        | 8,183.20         | 192.78             | 43.449            |                                                                                 |  |                    |  |         |
| 17,400.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 178.82          | 132.01 | 90.00             | -1,408.43              | 376.84     | 8,471.74        | 8,278.91         | 192.83             | 43.934            |                                                                                 |  |                    |  |         |
| 17,500.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 180.83          | 132.01 | 90.00             | -1,408.43              | 376.84     | 8,567.60        | 8,374.71         | 192.88             | 44.418            |                                                                                 |  |                    |  |         |
| 17,600.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 182.84          | 132.01 | 90.00             | -1,408.43              | 376.84     | 8,663.55        | 8,470.61         | 192.94             | 44.903            |                                                                                 |  |                    |  |         |
| 17,700.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 184.86          | 132.01 | 90.00             | -1,408.43              | 376.84     | 8,759.60        | 8,566.60         | 192.99             | 45.388            |                                                                                 |  |                    |  |         |
| 17,800.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 186.87          | 132.01 | 90.00             | -1,408.43              | 376.84     | 8,855.73        | 8,662.68         | 193.05             | 45.873            |                                                                                 |  |                    |  |         |
| 17,900.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 188.89          | 132.01 | 90.00             | -1,408.43              | 376.84     | 8,951.94        | 8,758.84         | 193.10             | 46.359            |                                                                                 |  |                    |  |         |
| 18,000.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 190.91          | 132.01 | 90.00             | -1,408.43              | 376.84     | 9,048.24        | 8,855.09         | 193.15             | 46.845            |                                                                                 |  |                    |  |         |
| 18,100.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 192.92          | 132.01 | 90.00             | -1,408.43              | 376.84     | 9,144.62        | 8,951.41         | 193.21             | 47.330            |                                                                                 |  |                    |  |         |
| 18,200.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 194.94          | 132.01 | 90.00             | -1,408.43              | 376.84     | 9,241.07        | 9,047.81         | 193.26             | 47.816            |                                                                                 |  |                    |  |         |
| 18,300.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 196.96          | 132.01 | 90.00             | -1,408.43              | 376.84     | 9,337.60        | 9,144.29         | 193.32             | 48.302            |                                                                                 |  |                    |  |         |
| 18,400.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 198.98          | 132.01 | 90.00             | -1,408.43              | 376.84     | 9,434.21        | 9,240.84         | 193.37             | 48.789            |                                                                                 |  |                    |  |         |
| 18,500.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 201.00          | 132.01 | 90.00             | -1,408.43              | 376.84     | 9,530.88        | 9,337.46         | 193.42             | 49.275            |                                                                                 |  |                    |  |         |
| 18,600.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 203.02          | 132.01 | 90.00             | -1,408.43              | 376.84     | 9,627.62        | 9,434.14         | 193.48             | 49.761            |                                                                                 |  |                    |  |         |
| 18,700.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 205.04          | 132.01 | 90.00             | -1,408.43              | 376.84     | 9,724.42        | 9,530.89         | 193.53             | 50.248            |                                                                                 |  |                    |  |         |
| 18,800.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 207.06          | 132.01 | 90.00             | -1,408.43              | 376.84     | 9,821.29        | 9,627.71         | 193.58             | 50.734            |                                                                                 |  |                    |  |         |
| 18,900.00                   | 8,835.00       | 8,824.20       | 8,824.20       | 209.08          | 132.01 | 90.00             | -1,408.43              | 376.84     | 9,918.23        | 9,724.59         | 193.64             | 51.220            |                                                                                 |  |                    |  |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft  |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|----------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 10.00 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning  |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |          |
| 0.00                        | 0.00                | 0.00                | 0.00                | 0.50            | 10.00       | 15.02                 | 1,387.93                          | 372.48     | 1,437.11             |                       |                         |                   |                    |          |
| 100.00                      | 100.00              | 86.20               | 86.20               | 0.52            | 10.12       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,426.41              | 10.64                   | 135.112           |                    |          |
| 200.00                      | 200.00              | 186.20              | 186.20              | 0.70            | 10.62       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,425.72              | 11.32                   | 126.963           |                    |          |
| 300.00                      | 300.00              | 286.20              | 286.20              | 0.99            | 11.46       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,424.60              | 12.44                   | 115.491           |                    |          |
| 400.00                      | 400.00              | 386.20              | 386.20              | 1.31            | 12.57       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,423.16              | 13.88                   | 103.560           |                    |          |
| 500.00                      | 500.00              | 486.20              | 486.20              | 1.65            | 13.89       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,421.51              | 15.53                   | 92.518            |                    |          |
| 600.00                      | 600.00              | 586.20              | 586.20              | 1.99            | 15.36       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,419.69              | 17.35                   | 82.826            |                    |          |
| 700.00                      | 700.00              | 686.20              | 686.20              | 2.34            | 16.95       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,417.76              | 19.29                   | 74.513            |                    |          |
| 800.00                      | 800.00              | 786.20              | 786.20              | 2.69            | 18.62       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,415.73              | 21.31                   | 67.438            |                    |          |
| 900.00                      | 900.00              | 886.20              | 886.20              | 3.04            | 20.35       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,413.64              | 23.40                   | 61.418            |                    |          |
| 1,000.00                    | 1,000.00            | 986.20              | 986.20              | 3.40            | 22.14       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,411.50              | 25.54                   | 56.274            |                    |          |
| 1,100.00                    | 1,100.00            | 1,086.20            | 1,086.20            | 3.75            | 23.96       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,409.33              | 27.71                   | 51.853            |                    |          |
| 1,200.00                    | 1,200.00            | 1,186.20            | 1,186.20            | 4.11            | 25.81       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,407.12              | 29.92                   | 48.026            |                    |          |
| 1,300.00                    | 1,300.00            | 1,286.20            | 1,286.20            | 4.46            | 27.69       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,404.89              | 32.15                   | 44.692            |                    |          |
| 1,400.00                    | 1,400.00            | 1,386.20            | 1,386.20            | 4.82            | 29.59       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,402.63              | 34.41                   | 41.767            |                    |          |
| 1,500.00                    | 1,500.00            | 1,486.20            | 1,486.20            | 5.18            | 31.50       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,400.37              | 36.67                   | 39.183            |                    |          |
| 1,600.00                    | 1,600.00            | 1,586.20            | 1,586.20            | 5.53            | 33.42       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,398.08              | 38.96                   | 36.888            |                    |          |
| 1,700.00                    | 1,700.00            | 1,686.20            | 1,686.20            | 5.89            | 35.36       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,395.79              | 41.25                   | 34.838            |                    |          |
| 1,800.00                    | 1,800.00            | 1,786.20            | 1,786.20            | 6.25            | 37.30       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,393.49              | 43.55                   | 32.996            |                    |          |
| 1,900.00                    | 1,900.00            | 1,886.20            | 1,886.20            | 6.61            | 39.26       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,391.18              | 45.86                   | 31.334            |                    |          |
| 2,000.00                    | 2,000.00            | 1,986.20            | 1,986.20            | 6.96            | 41.22       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,388.86              | 48.18                   | 29.827            |                    |          |
| 2,100.00                    | 2,099.99            | 2,086.19            | 2,086.19            | 7.32            | 43.18       | 27.82                 | 1,387.93                          | 372.48     | 1,436.27             | 1,385.77              | 50.50                   | 28.440            |                    |          |
| 2,200.00                    | 2,199.96            | 2,186.16            | 2,186.16            | 7.68            | 45.15       | 27.88                 | 1,387.93                          | 372.48     | 1,433.95             | 1,381.12              | 52.83                   | 27.143            |                    |          |
| 2,300.00                    | 2,299.86            | 2,286.06            | 2,286.06            | 8.04            | 47.13       | 27.98                 | 1,387.93                          | 372.48     | 1,430.10             | 1,374.94              | 55.16                   | 25.926            |                    |          |
| 2,400.00                    | 2,399.68            | 2,385.88            | 2,385.88            | 8.39            | 49.10       | 28.12                 | 1,387.93                          | 372.48     | 1,424.71             | 1,367.22              | 57.49                   | 24.781            |                    |          |
| 2,500.00                    | 2,499.37            | 2,485.57            | 2,485.57            | 8.75            | 51.08       | 28.30                 | 1,387.93                          | 372.48     | 1,417.79             | 1,357.96              | 59.83                   | 23.698            |                    |          |
| 2,600.00                    | 2,598.90            | 2,585.10            | 2,585.10            | 9.11            | 53.05       | 28.53                 | 1,387.93                          | 372.48     | 1,409.35             | 1,347.19              | 62.16                   | 22.673            |                    |          |
| 2,700.00                    | 2,698.26            | 2,684.46            | 2,684.46            | 9.46            | 55.03       | 28.80                 | 1,387.93                          | 372.48     | 1,399.41             | 1,334.91              | 64.49                   | 21.698            |                    |          |
| 2,800.00                    | 2,797.40            | 2,783.60            | 2,783.60            | 9.82            | 57.00       | 29.11                 | 1,387.93                          | 372.48     | 1,387.96             | 1,321.14              | 66.82                   | 20.770            |                    |          |
| 2,900.00                    | 2,896.30            | 2,882.50            | 2,882.50            | 10.18           | 58.97       | 29.48                 | 1,387.93                          | 372.48     | 1,375.04             | 1,305.88              | 69.15                   | 19.884            |                    |          |
| 3,000.00                    | 2,994.93            | 2,981.13            | 2,981.13            | 10.54           | 60.94       | 29.89                 | 1,387.93                          | 372.48     | 1,360.65             | 1,289.17              | 71.48                   | 19.036            |                    |          |
| 3,100.00                    | 3,093.26            | 3,079.46            | 3,079.46            | 10.90           | 62.90       | 30.36                 | 1,387.93                          | 372.48     | 1,344.82             | 1,271.02              | 73.80                   | 18.222            |                    |          |
| 3,195.07                    | 3,186.42            | 3,172.62            | 3,172.62            | 11.24           | 64.77       | 30.85                 | 1,387.93                          | 372.48     | 1,328.46             | 1,252.45              | 76.00                   | 17.479            |                    |          |
| 3,200.00                    | 3,191.25            | 3,177.45            | 3,177.45            | 11.26           | 64.86       | 30.87                 | 1,387.93                          | 372.48     | 1,327.58             | 1,251.46              | 76.12                   | 17.441            |                    |          |
| 3,300.00                    | 3,289.08            | 3,275.28            | 3,275.28            | 11.62           | 66.82       | 31.34                 | 1,387.93                          | 372.48     | 1,309.74             | 1,231.31              | 78.43                   | 16.699            |                    |          |
| 3,400.00                    | 3,386.91            | 3,373.11            | 3,373.11            | 11.98           | 68.78       | 31.81                 | 1,387.93                          | 372.48     | 1,292.00             | 1,211.24              | 80.75                   | 15.999            |                    |          |
| 3,500.00                    | 3,484.74            | 3,470.94            | 3,470.94            | 12.35           | 70.74       | 32.30                 | 1,387.93                          | 372.48     | 1,274.34             | 1,191.27              | 83.08                   | 15.340            |                    |          |
| 3,600.00                    | 3,582.58            | 3,568.78            | 3,568.78            | 12.72           | 72.70       | 32.80                 | 1,387.93                          | 372.48     | 1,256.78             | 1,171.38              | 85.40                   | 14.716            |                    |          |
| 3,700.00                    | 3,680.41            | 3,666.61            | 3,666.61            | 13.09           | 74.66       | 33.31                 | 1,387.93                          | 372.48     | 1,239.31             | 1,151.58              | 87.73                   | 14.127            |                    |          |
| 3,800.00                    | 3,778.24            | 3,764.44            | 3,764.44            | 13.46           | 76.62       | 33.84                 | 1,387.93                          | 372.48     | 1,221.94             | 1,131.89              | 90.06                   | 13.569            |                    |          |
| 3,900.00                    | 3,876.08            | 3,862.28            | 3,862.28            | 13.83           | 78.58       | 34.39                 | 1,387.93                          | 372.48     | 1,204.68             | 1,112.30              | 92.39                   | 13.040            |                    |          |
| 4,000.00                    | 3,973.91            | 3,960.11            | 3,960.11            | 14.21           | 80.55       | 34.95                 | 1,387.93                          | 372.48     | 1,187.53             | 1,092.81              | 94.72                   | 12.537            |                    |          |
| 4,100.00                    | 4,071.74            | 4,057.94            | 4,057.94            | 14.58           | 82.51       | 35.53                 | 1,387.93                          | 372.48     | 1,170.50             | 1,073.44              | 97.05                   | 12.060            |                    |          |
| 4,200.00                    | 4,169.57            | 4,155.77            | 4,155.77            | 14.96           | 84.48       | 36.12                 | 1,387.93                          | 372.48     | 1,153.58             | 1,054.19              | 99.39                   | 11.607            |                    |          |
| 4,300.00                    | 4,267.41            | 4,253.61            | 4,253.61            | 15.33           | 86.44       | 36.73                 | 1,387.93                          | 372.48     | 1,136.79             | 1,035.07              | 101.73                  | 11.175            |                    |          |
| 4,400.00                    | 4,365.24            | 4,351.44            | 4,351.44            | 15.71           | 88.41       | 37.36                 | 1,387.93                          | 372.48     | 1,120.14             | 1,016.07              | 104.07                  | 10.763            |                    |          |
| 4,500.00                    | 4,463.07            | 4,449.27            | 4,449.27            | 16.09           | 90.38       | 38.00                 | 1,387.93                          | 372.48     | 1,103.62             | 997.21                | 106.41                  | 10.371            |                    |          |
| 4,600.00                    | 4,560.90            | 4,547.10            | 4,547.10            | 16.47           | 92.34       | 38.67                 | 1,387.93                          | 372.48     | 1,087.24             | 978.48                | 108.75                  | 9.997             |                    |          |
| 4,700.00                    | 4,658.74            | 4,644.94            | 4,644.94            | 16.85           | 94.31       | 39.36                 | 1,387.93                          | 372.48     | 1,071.01             | 959.91                | 111.10                  | 9.640             |                    |          |
| 4,800.00                    | 4,756.57            | 4,742.77            | 4,742.77            | 17.23           | 96.28       | 40.06                 | 1,387.93                          | 372.48     | 1,054.94             | 941.50                | 113.44                  | 9.299             |                    |          |
| 4,900.00                    | 4,854.40            | 4,840.60            | 4,840.60            | 17.61           | 98.25       | 40.79                 | 1,387.93                          | 372.48     | 1,039.03             | 923.24                | 115.79                  | 8.973             |                    |          |
| 5,000.00                    | 4,952.23            | 4,938.43            | 4,938.43            | 17.99           | 100.22      | 41.54                 | 1,387.93                          | 372.48     | 1,023.30             | 905.16                | 118.14                  | 8.662             |                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft  |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|----------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 10.00 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning  |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |          |
| 5,100.00                    | 5,050.07            | 5,036.27            | 5,036.27            | 18.37           | 102.19      | 42.32                 | 1,387.93                          | 372.48     | 1,007.74             | 887.26                | 120.49                  | 8.364             |                    |          |
| 5,200.00                    | 5,147.90            | 5,134.10            | 5,134.10            | 18.75           | 104.16      | 43.11                 | 1,387.93                          | 372.48     | 992.37               | 869.54                | 122.84                  | 8.079             |                    |          |
| 5,300.00                    | 5,245.73            | 5,231.93            | 5,231.93            | 19.14           | 106.13      | 43.93                 | 1,387.93                          | 372.48     | 977.21               | 852.02                | 125.19                  | 7.806             |                    |          |
| 5,400.00                    | 5,343.56            | 5,329.76            | 5,329.76            | 19.52           | 108.10      | 44.78                 | 1,387.93                          | 372.48     | 962.24               | 834.70                | 127.54                  | 7.545             |                    |          |
| 5,500.00                    | 5,441.40            | 5,427.60            | 5,427.60            | 19.90           | 110.07      | 45.65                 | 1,387.93                          | 372.48     | 947.49               | 817.60                | 129.89                  | 7.294             |                    |          |
| 5,600.00                    | 5,539.23            | 5,525.43            | 5,525.43            | 20.29           | 112.04      | 46.55                 | 1,387.93                          | 372.48     | 932.97               | 800.72                | 132.25                  | 7.055             |                    |          |
| 5,700.00                    | 5,637.06            | 5,623.26            | 5,623.26            | 20.67           | 114.01      | 47.48                 | 1,387.93                          | 372.48     | 918.69               | 784.09                | 134.61                  | 6.825             |                    |          |
| 5,800.00                    | 5,734.90            | 5,721.10            | 5,721.10            | 21.05           | 115.99      | 48.43                 | 1,387.93                          | 372.48     | 904.66               | 767.69                | 136.96                  | 6.605             |                    |          |
| 5,900.00                    | 5,832.73            | 5,818.93            | 5,818.93            | 21.44           | 117.96      | 49.42                 | 1,387.93                          | 372.48     | 890.88               | 751.56                | 139.32                  | 6.395             |                    |          |
| 6,000.00                    | 5,930.56            | 5,916.76            | 5,916.76            | 21.83           | 119.93      | 50.43                 | 1,387.93                          | 372.48     | 877.38               | 735.70                | 141.68                  | 6.193             |                    |          |
| 6,100.00                    | 6,028.39            | 6,014.59            | 6,014.59            | 22.21           | 121.90      | 51.48                 | 1,387.93                          | 372.48     | 864.16               | 720.12                | 144.04                  | 6.000             |                    |          |
| 6,200.00                    | 6,126.23            | 6,112.43            | 6,112.43            | 22.60           | 123.88      | 52.55                 | 1,387.93                          | 372.48     | 851.24               | 704.85                | 146.40                  | 5.815             |                    |          |
| 6,300.00                    | 6,224.06            | 6,210.26            | 6,210.26            | 22.98           | 125.85      | 53.66                 | 1,387.93                          | 372.48     | 838.64               | 689.88                | 148.76                  | 5.638             |                    |          |
| 6,400.00                    | 6,321.89            | 6,308.09            | 6,308.09            | 23.37           | 127.82      | 54.80                 | 1,387.93                          | 372.48     | 826.36               | 675.24                | 151.12                  | 5.468             |                    |          |
| 6,500.00                    | 6,419.72            | 6,405.92            | 6,405.92            | 23.76           | 129.80      | 55.97                 | 1,387.93                          | 372.48     | 814.42               | 660.94                | 153.48                  | 5.306             |                    |          |
| 6,600.00                    | 6,517.56            | 6,503.76            | 6,503.76            | 24.14           | 131.77      | 57.18                 | 1,387.93                          | 372.48     | 802.84               | 646.99                | 155.85                  | 5.151             |                    |          |
| 6,700.00                    | 6,615.39            | 6,601.59            | 6,601.59            | 24.53           | 133.74      | 58.42                 | 1,387.93                          | 372.48     | 791.63               | 633.42                | 158.21                  | 5.004             |                    |          |
| 6,800.00                    | 6,713.22            | 6,699.42            | 6,699.42            | 24.92           | 135.72      | 59.69                 | 1,387.93                          | 372.48     | 780.81               | 620.23                | 160.58                  | 4.863 Alert       |                    |          |
| 6,900.00                    | 6,811.05            | 6,797.25            | 6,797.25            | 25.30           | 137.69      | 61.00                 | 1,387.93                          | 372.48     | 770.39               | 607.45                | 162.94                  | 4.728 Alert       |                    |          |
| 7,000.00                    | 6,908.89            | 6,895.09            | 6,895.09            | 25.69           | 139.67      | 62.34                 | 1,387.93                          | 372.48     | 760.40               | 595.09                | 165.31                  | 4.600 Alert       |                    |          |
| 7,100.00                    | 7,006.72            | 6,992.92            | 6,992.92            | 26.08           | 141.64      | 63.72                 | 1,387.93                          | 372.48     | 750.84               | 583.17                | 167.68                  | 4.478 Alert       |                    |          |
| 7,200.00                    | 7,104.55            | 7,090.75            | 7,090.75            | 26.47           | 143.61      | 65.12                 | 1,387.93                          | 372.48     | 741.74               | 571.70                | 170.04                  | 4.362 Alert       |                    |          |
| 7,216.87                    | 7,121.05            | 7,107.25            | 7,107.25            | 26.53           | 143.95      | 65.36                 | 1,387.93                          | 372.48     | 740.25               | 569.81                | 170.44                  | 4.343 Alert       |                    |          |
| 7,300.00                    | 7,202.57            | 7,188.77            | 7,188.77            | 26.85           | 145.59      | 66.41                 | 1,387.93                          | 372.48     | 733.47               | 561.06                | 172.41                  | 4.254 Alert       |                    |          |
| 7,400.00                    | 7,301.06            | 7,287.26            | 7,287.26            | 27.23           | 147.58      | 67.55                 | 1,387.93                          | 372.48     | 726.62               | 551.84                | 174.78                  | 4.157 Alert       |                    |          |
| 7,500.00                    | 7,399.97            | 7,386.17            | 7,386.17            | 27.61           | 149.58      | 68.54                 | 1,387.93                          | 372.48     | 721.07               | 543.91                | 177.16                  | 4.070 Alert       |                    |          |
| 7,600.00                    | 7,499.23            | 7,485.43            | 7,485.43            | 27.98           | 151.58      | 69.37                 | 1,387.93                          | 372.48     | 716.70               | 537.16                | 179.53                  | 3.992 Alert       |                    |          |
| 7,700.00                    | 7,598.77            | 7,584.97            | 7,584.97            | 28.34           | 153.59      | 70.04                 | 1,387.93                          | 372.48     | 713.39               | 531.48                | 181.91                  | 3.922 Alert       |                    |          |
| 7,800.00                    | 7,698.53            | 7,684.73            | 7,684.73            | 28.70           | 155.61      | 70.53                 | 1,387.93                          | 372.48     | 711.06               | 526.78                | 184.28                  | 3.859 Alert       |                    |          |
| 7,900.00                    | 7,798.44            | 7,784.64            | 7,784.64            | 29.05           | 157.62      | 70.83                 | 1,387.93                          | 372.48     | 709.64               | 522.99                | 186.65                  | 3.802 Alert       |                    |          |
| 8,000.00                    | 7,898.42            | 7,884.62            | 7,884.62            | 29.39           | 159.64      | 70.95                 | 1,387.93                          | 372.48     | 709.09               | 520.08                | 189.01                  | 3.752 Alert       |                    |          |
| 8,013.58                    | 7,912.00            | 7,898.20            | 7,898.20            | 29.43           | 159.92      | 58.17                 | 1,387.93                          | 372.48     | 709.09               | 519.75                | 189.33                  | 3.745 Alert       |                    |          |
| 8,100.00                    | 7,998.42            | 7,984.62            | 7,984.62            | 29.73           | 161.66      | 58.17                 | 1,387.93                          | 372.48     | 709.09               | 517.72                | 191.37                  | 3.705 Alert       |                    |          |
| 8,200.00                    | 8,098.42            | 8,084.62            | 8,084.62            | 30.07           | 163.68      | 58.17                 | 1,387.93                          | 372.48     | 709.09               | 515.36                | 193.73                  | 3.660 Alert       |                    |          |
| 8,300.00                    | 8,198.42            | 8,184.62            | 8,184.62            | 30.41           | 165.70      | 58.17                 | 1,387.93                          | 372.48     | 709.09               | 513.00                | 196.09                  | 3.616 Alert       |                    |          |
| 8,363.62                    | 8,262.04            | 8,248.24            | 8,248.24            | 30.62           | 166.98      | 58.17                 | 1,387.93                          | 372.48     | 709.09               | 511.49                | 197.59                  | 3.589 Alert       |                    |          |
| 8,400.00                    | 8,298.40            | 8,284.60            | 8,284.60            | 30.75           | 167.72      | -31.58                | 1,387.93                          | 372.48     | 708.10               | 509.65                | 198.45                  | 3.568 Alert       |                    |          |
| 8,450.00                    | 8,348.10            | 8,334.30            | 8,334.30            | 30.91           | 168.72      | -32.05                | 1,387.93                          | 372.48     | 703.55               | 503.94                | 199.61                  | 3.525 Alert       |                    |          |
| 8,500.00                    | 8,397.14            | 8,383.34            | 8,383.34            | 31.07           | 169.71      | -32.92                | 1,387.93                          | 372.48     | 695.36               | 494.59                | 200.77                  | 3.464 Alert       |                    |          |
| 8,550.00                    | 8,445.15            | 8,431.35            | 8,431.35            | 31.23           | 170.68      | -34.22                | 1,387.93                          | 372.48     | 683.64               | 481.75                | 201.89                  | 3.386 Alert       |                    |          |
| 8,600.00                    | 8,491.77            | 8,477.97            | 8,477.97            | 31.38           | 171.63      | -35.99                | 1,387.93                          | 372.48     | 668.56               | 465.57                | 202.99                  | 3.294 Alert       |                    |          |
| 8,650.00                    | 8,536.65            | 8,522.85            | 8,522.85            | 31.52           | 172.53      | -38.28                | 1,387.93                          | 372.48     | 650.34               | 446.30                | 204.04                  | 3.187 Alert       |                    |          |
| 8,700.00                    | 8,579.43            | 8,565.63            | 8,565.63            | 31.66           | 173.40      | -41.16                | 1,387.93                          | 372.48     | 629.27               | 424.22                | 205.05                  | 3.069 Alert       |                    |          |
| 8,750.00                    | 8,619.80            | 8,606.00            | 8,606.00            | 31.80           | 174.21      | -44.69                | 1,387.93                          | 372.48     | 605.68               | 399.68                | 206.00                  | 2.940 Alert       |                    |          |
| 8,800.00                    | 8,657.44            | 8,643.64            | 8,643.64            | 31.93           | 174.97      | -48.90                | 1,387.93                          | 372.48     | 580.01               | 373.12                | 206.90                  | 2.803 Alert       |                    |          |
| 8,850.00                    | 8,692.08            | 8,678.28            | 8,678.28            | 32.06           | 175.67      | -53.79                | 1,387.93                          | 372.48     | 552.75               | 345.03                | 207.73                  | 2.661 Alert       |                    |          |
| 8,900.00                    | 8,723.44            | 8,709.64            | 8,709.64            | 32.19           | 176.30      | -59.26                | 1,387.93                          | 372.48     | 524.51               | 316.02                | 208.49                  | 2.516 Alert       |                    |          |
| 8,950.00                    | 8,751.29            | 8,737.49            | 8,737.49            | 32.34           | 176.87      | -65.12                | 1,387.93                          | 372.48     | 495.98               | 286.79                | 209.19                  | 2.371 Minor Risk  |                    |          |
| 9,000.00                    | 8,775.42            | 8,761.62            | 8,761.62            | 32.50           | 177.35      | -71.06                | 1,387.93                          | 372.48     | 468.01               | 258.17                | 209.84                  | 2.230 Minor Risk  |                    |          |
| 9,050.00                    | 8,795.64            | 8,781.84            | 8,781.84            | 32.67           | 177.76      | -76.69                | 1,387.93                          | 372.48     | 441.54               | 231.12                | 210.42                  | 2.098 Minor Risk  |                    |          |
| 9,100.00                    | 8,811.80            | 8,798.00            | 8,798.00            | 32.87           | 178.09      | -81.64                | 1,387.93                          | 372.48     | 417.67               | 206.73                | 210.94                  | 1.980 Minor Risk  |                    |          |
| 9,150.00                    | 8,823.77            | 8,809.97            | 8,809.97            | 33.10           | 178.33      | -85.60                | 1,387.93                          | 372.48     | 397.57               | 186.15                | 211.42                  | 1.880 Minor Risk  |                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft  |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|----------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 10.00 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning  |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |          |
| 9,200.00                    | 8,831.47            | 8,817.67            | 8,817.67            | 33.34           | 178.49      | -88.37                | 1,387.93                          | 372.48     | 382.38               | 170.56                | 211.82                  | 1.805             | Minor Risk         |          |
| 9,250.00                    | 8,834.84            | 8,821.04            | 8,821.04            | 33.60           | 178.55      | -89.83                | 1,387.93                          | 372.48     | 373.10               | 160.95                | 212.15                  | 1.759             | Minor Risk         |          |
| 9,263.62                    | 8,835.00            | 8,821.20            | 8,821.20            | 33.67           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 371.69               | 159.47                | 212.22                  | 1.751             | Minor Risk         |          |
| 9,295.36                    | 8,835.00            | 8,821.20            | 8,821.20            | 33.85           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 370.33               | 157.96                | 212.38                  | 1.744             | Minor Risk, CC, ES |          |
| 9,300.00                    | 8,835.00            | 8,821.20            | 8,821.20            | 33.88           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 370.36               | 157.96                | 212.40                  | 1.744             | Minor Risk, SF     |          |
| 9,400.00                    | 8,835.00            | 8,821.20            | 8,821.20            | 34.53           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 384.83               | 172.04                | 212.79                  | 1.809             | Minor Risk         |          |
| 9,500.00                    | 8,835.00            | 8,821.20            | 8,821.20            | 35.30           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 423.11               | 210.14                | 212.97                  | 1.987             | Minor Risk         |          |
| 9,600.00                    | 8,835.00            | 8,821.20            | 8,821.20            | 36.17           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 479.53               | 266.54                | 212.99                  | 2.251             | Minor Risk         |          |
| 9,700.00                    | 8,835.00            | 8,821.20            | 8,821.20            | 37.13           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 548.53               | 335.60                | 212.92                  | 2.576             | Alert              |          |
| 9,800.00                    | 8,835.00            | 8,821.20            | 8,821.20            | 38.18           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 625.95               | 413.12                | 212.83                  | 2.941             | Alert              |          |
| 9,900.00                    | 8,835.00            | 8,821.20            | 8,821.20            | 39.31           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 709.04               | 496.30                | 212.74                  | 3.333             | Alert              |          |
| 10,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 40.51           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 796.03               | 583.38                | 212.66                  | 3.743             | Alert              |          |
| 10,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 41.78           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 885.77               | 673.19                | 212.59                  | 4.167             | Alert              |          |
| 10,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 43.10           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 977.51               | 764.98                | 212.53                  | 4.599             | Alert              |          |
| 10,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 44.49           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,070.73             | 858.24                | 212.48                  | 5.039             |                    |          |
| 10,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 45.92           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,165.07             | 952.62                | 212.44                  | 5.484             |                    |          |
| 10,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 47.39           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,260.28             | 1,047.87              | 212.41                  | 5.933             |                    |          |
| 10,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 48.91           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,356.19             | 1,143.79              | 212.39                  | 6.385             |                    |          |
| 10,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 50.47           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,452.64             | 1,240.27              | 212.37                  | 6.840             |                    |          |
| 10,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 52.06           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,549.55             | 1,337.19              | 212.36                  | 7.297             |                    |          |
| 10,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 53.68           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,646.82             | 1,434.47              | 212.35                  | 7.755             |                    |          |
| 11,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 55.32           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,744.41             | 1,532.06              | 212.35                  | 8.215             |                    |          |
| 11,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 57.00           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,842.25             | 1,629.90              | 212.35                  | 8.676             |                    |          |
| 11,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 58.70           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,940.31             | 1,727.96              | 212.35                  | 9.137             |                    |          |
| 11,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 60.41           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,038.56             | 1,826.21              | 212.36                  | 9.600             |                    |          |
| 11,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 62.15           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,136.98             | 1,924.61              | 212.37                  | 10.063            |                    |          |
| 11,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 63.91           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,235.53             | 2,023.16              | 212.38                  | 10.526            |                    |          |
| 11,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 65.69           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,334.21             | 2,121.82              | 212.39                  | 10.990            |                    |          |
| 11,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 67.47           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,432.99             | 2,220.59              | 212.40                  | 11.455            |                    |          |
| 11,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 69.28           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,531.87             | 2,319.46              | 212.42                  | 11.919            |                    |          |
| 11,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 71.09           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,630.84             | 2,418.40              | 212.43                  | 12.384            |                    |          |
| 12,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 72.92           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,729.88             | 2,517.43              | 212.45                  | 12.849            |                    |          |
| 12,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 74.76           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,828.99             | 2,616.51              | 212.48                  | 13.314            |                    |          |
| 12,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 76.61           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,928.16             | 2,715.66              | 212.50                  | 13.780            |                    |          |
| 12,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 78.47           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,027.38             | 2,814.86              | 212.52                  | 14.245            |                    |          |
| 12,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 80.34           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,126.65             | 2,914.11              | 212.55                  | 14.710            |                    |          |
| 12,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 82.22           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,225.97             | 3,013.40              | 212.57                  | 15.176            |                    |          |
| 12,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 84.11           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,325.33             | 3,112.73              | 212.60                  | 15.641            |                    |          |
| 12,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 86.00           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,424.73             | 3,212.10              | 212.63                  | 16.107            |                    |          |
| 12,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 87.90           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,524.16             | 3,311.50              | 212.66                  | 16.572            |                    |          |
| 12,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 89.81           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,623.62             | 3,410.93              | 212.69                  | 17.037            |                    |          |
| 13,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 91.72           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,723.11             | 3,510.38              | 212.72                  | 17.502            |                    |          |
| 13,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 93.64           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,822.62             | 3,609.87              | 212.76                  | 17.967            |                    |          |
| 13,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 95.56           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,922.17             | 3,709.37              | 212.79                  | 18.432            |                    |          |
| 13,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 97.49           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,021.73             | 3,808.90              | 212.83                  | 18.897            |                    |          |
| 13,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 99.42           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,121.32             | 3,908.45              | 212.87                  | 19.361            |                    |          |
| 13,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 101.36          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,220.92             | 4,008.02              | 212.90                  | 19.826            |                    |          |
| 13,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 103.30          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,320.54             | 4,107.60              | 212.94                  | 20.290            |                    |          |
| 13,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 105.25          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,420.18             | 4,207.20              | 212.98                  | 20.754            |                    |          |
| 13,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 107.20          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,519.84             | 4,306.82              | 213.02                  | 21.218            |                    |          |
| 13,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 109.15          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,619.51             | 4,406.45              | 213.07                  | 21.681            |                    |          |
| 14,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 111.10          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,719.20             | 4,506.09              | 213.11                  | 22.145            |                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft  |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|----------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 10.00 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |          |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |          |
| 14,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 113.06          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,818.89             | 4,605.74              | 213.15                  | 22.608            |                    |          |
| 14,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 115.03          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,918.61             | 4,705.41              | 213.20                  | 23.071            |                    |          |
| 14,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 116.99          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,018.33             | 4,805.08              | 213.24                  | 23.533            |                    |          |
| 14,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 118.96          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,118.06             | 4,904.77              | 213.29                  | 23.996            |                    |          |
| 14,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 120.93          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,217.80             | 5,004.47              | 213.34                  | 24.458            |                    |          |
| 14,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 122.90          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,317.55             | 5,104.17              | 213.39                  | 24.920            |                    |          |
| 14,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 124.88          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,417.32             | 5,203.88              | 213.44                  | 25.382            |                    |          |
| 14,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 126.86          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,517.09             | 5,303.60              | 213.49                  | 25.843            |                    |          |
| 14,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 128.84          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,616.87             | 5,403.33              | 213.54                  | 26.304            |                    |          |
| 15,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 130.82          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,716.65             | 5,503.06              | 213.59                  | 26.765            |                    |          |
| 15,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 132.80          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,816.45             | 5,602.80              | 213.64                  | 27.225            |                    |          |
| 15,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 134.79          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,916.25             | 5,702.55              | 213.70                  | 27.685            |                    |          |
| 15,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 136.78          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,016.05             | 5,802.30              | 213.75                  | 28.145            |                    |          |
| 15,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 138.76          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,115.87             | 5,902.06              | 213.81                  | 28.605            |                    |          |
| 15,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 140.76          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,215.69             | 6,001.82              | 213.86                  | 29.064            |                    |          |
| 15,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 142.75          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,315.51             | 6,101.59              | 213.92                  | 29.523            |                    |          |
| 15,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 144.74          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,415.34             | 6,201.36              | 213.98                  | 29.981            |                    |          |
| 15,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 146.74          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,515.18             | 6,301.14              | 214.04                  | 30.440            |                    |          |
| 15,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 148.73          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,615.02             | 6,400.92              | 214.10                  | 30.897            |                    |          |
| 16,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 150.73          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,714.86             | 6,500.71              | 214.16                  | 31.355            |                    |          |
| 16,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 152.73          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,814.71             | 6,600.50              | 214.22                  | 31.812            |                    |          |
| 16,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 154.73          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,914.57             | 6,700.29              | 214.28                  | 32.269            |                    |          |
| 16,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 156.73          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,014.43             | 6,800.08              | 214.34                  | 32.725            |                    |          |
| 16,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 158.74          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,114.29             | 6,899.88              | 214.41                  | 33.181            |                    |          |
| 16,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 160.74          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,214.16             | 6,999.68              | 214.47                  | 33.637            |                    |          |
| 16,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 162.74          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,314.03             | 7,099.49              | 214.54                  | 34.092            |                    |          |
| 16,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 164.75          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,413.90             | 7,199.30              | 214.60                  | 34.547            |                    |          |
| 16,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 166.76          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,513.78             | 7,299.11              | 214.67                  | 35.002            |                    |          |
| 16,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 168.77          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,613.66             | 7,398.92              | 214.74                  | 35.456            |                    |          |
| 17,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 170.77          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,713.54             | 7,498.73              | 214.80                  | 35.910            |                    |          |
| 17,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 172.78          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,813.42             | 7,598.55              | 214.87                  | 36.363            |                    |          |
| 17,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 174.79          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,913.31             | 7,698.37              | 214.94                  | 36.816            |                    |          |
| 17,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 176.81          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,013.21             | 7,798.19              | 215.01                  | 37.268            |                    |          |
| 17,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 178.82          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,113.10             | 7,898.02              | 215.09                  | 37.720            |                    |          |
| 17,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 180.83          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,213.00             | 7,997.84              | 215.16                  | 38.172            |                    |          |
| 17,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 182.84          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,312.90             | 8,097.67              | 215.23                  | 38.623            |                    |          |
| 17,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 184.86          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,412.80             | 8,197.50              | 215.30                  | 39.074            |                    |          |
| 17,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 186.87          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,512.70             | 8,297.33              | 215.38                  | 39.525            |                    |          |
| 17,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 188.89          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,612.61             | 8,397.16              | 215.45                  | 39.975            |                    |          |
| 18,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 190.91          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,712.52             | 8,496.99              | 215.53                  | 40.424            |                    |          |
| 18,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 192.92          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,812.43             | 8,596.83              | 215.60                  | 40.873            |                    |          |
| 18,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 194.94          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,912.34             | 8,696.66              | 215.68                  | 41.322            |                    |          |
| 18,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 196.96          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,012.26             | 8,796.50              | 215.76                  | 41.770            |                    |          |
| 18,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 198.98          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,112.17             | 8,896.34              | 215.84                  | 42.218            |                    |          |
| 18,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 201.00          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,212.09             | 8,996.18              | 215.91                  | 42.665            |                    |          |
| 18,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 203.02          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,312.01             | 9,096.02              | 215.99                  | 43.112            |                    |          |
| 18,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 205.04          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,411.93             | 9,195.86              | 216.07                  | 43.559            |                    |          |
| 18,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 207.06          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,511.86             | 9,295.70              | 216.16                  | 44.005            |                    |          |
| 18,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 209.08          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,611.78             | 9,395.54              | 216.24                  | 44.450            |                    |          |
| 19,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 211.10          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,711.71             | 9,495.39              | 216.32                  | 44.895            |                    |          |
| 19,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 213.12          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,811.64             | 9,595.23              | 216.40                  | 45.340            |                    |          |
| 19,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 215.15          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,911.56             | 9,695.08              | 216.48                  | 45.784            |                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                       | 0.00                | 11.50               | 11.50               | 0.50            | 0.50        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             |                       |                         |                   |                    |         |
| 100.00                     | 100.00              | 111.50              | 111.50              | 0.52            | 0.53        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,557.66              | 1.05                    | 1,487.726         |                    |         |
| 200.00                     | 200.00              | 211.50              | 211.50              | 0.70            | 0.73        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,557.27              | 1.43                    | 1,087.164         |                    |         |
| 300.00                     | 300.00              | 311.50              | 311.50              | 0.99            | 1.02        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,556.70              | 2.01                    | 775.310           |                    |         |
| 400.00                     | 400.00              | 411.50              | 411.50              | 1.31            | 1.35        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,556.05              | 2.66                    | 586.781           |                    |         |
| 500.00                     | 500.00              | 511.50              | 511.50              | 1.65            | 1.69        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,555.38              | 3.33                    | 467.870           |                    |         |
| 600.00                     | 600.00              | 611.50              | 611.50              | 1.99            | 2.03        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,554.69              | 4.02                    | 387.629           |                    |         |
| 700.00                     | 700.00              | 711.50              | 711.50              | 2.34            | 2.38        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,553.99              | 4.72                    | 330.310           |                    |         |
| 800.00                     | 800.00              | 811.50              | 811.50              | 2.69            | 2.73        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,553.29              | 5.42                    | 287.494           |                    |         |
| 900.00                     | 900.00              | 911.50              | 911.50              | 3.04            | 3.08        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,552.58              | 6.13                    | 254.368           |                    |         |
| 1,000.00                   | 1,000.00            | 1,011.50            | 1,011.50            | 3.40            | 3.44        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,551.87              | 6.84                    | 228.011           |                    |         |
| 1,100.00                   | 1,100.00            | 1,111.50            | 1,111.50            | 3.75            | 3.79        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,551.16              | 7.55                    | 206.559           |                    |         |
| 1,200.00                   | 1,200.00            | 1,211.50            | 1,211.50            | 4.11            | 4.15        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,550.45              | 8.26                    | 188.769           |                    |         |
| 1,300.00                   | 1,300.00            | 1,311.50            | 1,311.50            | 4.46            | 4.51        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,549.74              | 8.97                    | 173.782           |                    |         |
| 1,400.00                   | 1,400.00            | 1,411.50            | 1,411.50            | 4.82            | 4.86        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,549.02              | 9.68                    | 160.988           |                    |         |
| 1,500.00                   | 1,500.00            | 1,511.50            | 1,511.50            | 5.18            | 5.22        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,548.31              | 10.40                   | 149.941           |                    |         |
| 1,600.00                   | 1,600.00            | 1,611.50            | 1,611.50            | 5.53            | 5.58        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,547.60              | 11.11                   | 140.306           |                    |         |
| 1,700.00                   | 1,700.00            | 1,711.50            | 1,711.50            | 5.89            | 5.93        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,546.88              | 11.82                   | 131.831           |                    |         |
| 1,800.00                   | 1,800.00            | 1,811.50            | 1,811.50            | 6.25            | 6.29        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,546.17              | 12.54                   | 124.318           |                    |         |
| 1,900.00                   | 1,900.00            | 1,911.50            | 1,911.50            | 6.61            | 6.65        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,545.45              | 13.25                   | 117.613           |                    |         |
| 1,912.34                   | 1,912.34            | 1,923.84            | 1,923.84            | 6.65            | 6.69        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,545.37              | 13.34                   | 116.836           |                    |         |
| 2,000.00                   | 2,000.00            | 2,009.08            | 2,009.08            | 6.96            | 7.00        | -0.13                 | 1,558.71                          | -3.48      | 1,558.72             | 1,544.76              | 13.96                   | 111.663           |                    |         |
| 2,100.00                   | 2,099.99            | 2,088.04            | 2,088.04            | 7.32            | 7.28        | 12.65                 | 1,559.37                          | -3.62      | 1,558.69             | 1,544.10              | 14.60                   | 106.779           |                    |         |
| 2,200.00                   | 2,199.96            | 2,167.00            | 2,166.98            | 7.68            | 7.56        | 12.66                 | 1,561.09                          | -3.97      | 1,558.32             | 1,543.09              | 15.23                   | 102.298           |                    |         |
| 2,300.00                   | 2,299.86            | 2,245.96            | 2,245.89            | 8.04            | 7.84        | 12.67                 | 1,563.87                          | -4.55      | 1,557.59             | 1,541.73              | 15.87                   | 98.169            |                    |         |
| 2,400.00                   | 2,399.68            | 2,324.94            | 2,324.76            | 8.39            | 8.12        | 12.68                 | 1,567.72                          | -5.35      | 1,556.51             | 1,540.02              | 16.50                   | 94.349            |                    |         |
| 2,500.00                   | 2,499.37            | 2,403.92            | 2,403.58            | 8.75            | 8.41        | 12.69                 | 1,572.64                          | -6.37      | 1,555.08             | 1,537.95              | 17.13                   | 90.803            |                    |         |
| 2,600.00                   | 2,598.90            | 2,482.92            | 2,482.34            | 9.11            | 8.69        | 12.71                 | 1,578.62                          | -7.62      | 1,553.30             | 1,535.54              | 17.75                   | 87.499            |                    |         |
| 2,700.00                   | 2,698.26            | 2,561.93            | 2,561.03            | 9.46            | 8.97        | 12.74                 | 1,585.66                          | -9.08      | 1,551.16             | 1,532.78              | 18.38                   | 84.411            |                    |         |
| 2,800.00                   | 2,797.40            | 2,640.96            | 2,639.62            | 9.82            | 9.25        | 12.76                 | 1,593.77                          | -10.76     | 1,548.67             | 1,529.67              | 19.00                   | 81.517            |                    |         |
| 2,900.00                   | 2,896.30            | 2,720.01            | 2,718.12            | 10.18           | 9.54        | 12.80                 | 1,602.94                          | -12.67     | 1,545.83             | 1,526.21              | 19.62                   | 78.796            |                    |         |
| 3,000.00                   | 2,994.93            | 2,800.00            | 2,797.40            | 10.54           | 9.82        | 12.83                 | 1,613.30                          | -14.82     | 1,542.64             | 1,522.40              | 20.24                   | 76.214            |                    |         |
| 3,100.00                   | 3,093.26            | 2,878.20            | 2,874.76            | 10.90           | 10.10       | 12.87                 | 1,624.47                          | -17.14     | 1,539.10             | 1,518.25              | 20.85                   | 73.805            |                    |         |
| 3,195.07                   | 3,186.42            | 2,953.43            | 2,949.04            | 11.24           | 10.37       | 12.91                 | 1,636.19                          | -19.58     | 1,535.41             | 1,513.98              | 21.44                   | 71.618            |                    |         |
| 3,200.00                   | 3,191.25            | 2,957.34            | 2,952.89            | 11.26           | 10.38       | 12.91                 | 1,636.83                          | -19.71     | 1,535.22             | 1,513.75              | 21.47                   | 71.507            |                    |         |
| 3,300.00                   | 3,289.08            | 3,036.53            | 3,030.89            | 11.62           | 10.67       | 12.95                 | 1,650.25                          | -22.50     | 1,531.91             | 1,509.83              | 22.08                   | 69.368            |                    |         |
| 3,400.00                   | 3,386.91            | 3,120.30            | 3,108.24            | 11.98           | 10.97       | 12.97                 | 1,664.64                          | -25.49     | 1,529.97             | 1,507.25              | 22.71                   | 67.360            |                    |         |
| 3,500.00                   | 3,484.74            | 3,215.26            | 3,206.34            | 12.35           | 11.31       | 12.99                 | 1,683.62                          | -29.43     | 1,528.73             | 1,505.30              | 23.43                   | 65.260            |                    |         |
| 3,600.00                   | 3,582.58            | 3,315.25            | 3,304.43            | 12.72           | 11.67       | 13.02                 | 1,702.60                          | -33.37     | 1,527.49             | 1,503.33              | 24.16                   | 63.229            |                    |         |
| 3,700.00                   | 3,680.41            | 3,415.24            | 3,402.52            | 13.09           | 12.04       | 13.04                 | 1,721.58                          | -37.32     | 1,526.25             | 1,501.36              | 24.89                   | 61.312            |                    |         |
| 3,800.00                   | 3,778.24            | 3,515.23            | 3,500.62            | 13.46           | 12.40       | 13.07                 | 1,740.56                          | -41.26     | 1,525.02             | 1,499.38              | 25.63                   | 59.499            |                    |         |
| 3,900.00                   | 3,876.08            | 3,615.22            | 3,598.71            | 13.83           | 12.77       | 13.09                 | 1,759.54                          | -45.20     | 1,523.78             | 1,497.41              | 26.37                   | 57.784            |                    |         |
| 4,000.00                   | 3,973.91            | 3,715.21            | 3,696.80            | 14.21           | 13.14       | 13.12                 | 1,778.51                          | -49.14     | 1,522.54             | 1,495.43              | 27.11                   | 56.158            |                    |         |
| 4,100.00                   | 4,071.74            | 3,815.20            | 3,794.90            | 14.58           | 13.51       | 13.14                 | 1,797.49                          | -53.09     | 1,521.31             | 1,493.45              | 27.85                   | 54.616            |                    |         |
| 4,200.00                   | 4,169.57            | 3,915.19            | 3,892.99            | 14.96           | 13.88       | 13.17                 | 1,816.47                          | -57.03     | 1,520.07             | 1,491.47              | 28.60                   | 53.150            |                    |         |
| 4,300.00                   | 4,267.41            | 4,015.18            | 3,991.08            | 15.33           | 14.25       | 13.19                 | 1,835.45                          | -60.97     | 1,518.83             | 1,489.49              | 29.35                   | 51.757            |                    |         |
| 4,400.00                   | 4,365.24            | 4,115.18            | 4,089.18            | 15.71           | 14.63       | 13.21                 | 1,854.43                          | -64.91     | 1,517.60             | 1,487.50              | 30.09                   | 50.430            |                    |         |
| 4,500.00                   | 4,463.07            | 4,215.17            | 4,187.27            | 16.09           | 15.00       | 13.24                 | 1,873.41                          | -68.86     | 1,516.36             | 1,485.52              | 30.84                   | 49.166            |                    |         |
| 4,600.00                   | 4,560.90            | 4,315.16            | 4,285.36            | 16.47           | 15.37       | 13.26                 | 1,892.38                          | -72.80     | 1,515.13             | 1,483.54              | 31.59                   | 47.960            |                    |         |
| 4,700.00                   | 4,658.74            | 4,415.15            | 4,383.46            | 16.85           | 15.75       | 13.29                 | 1,911.36                          | -76.74     | 1,513.89             | 1,481.55              | 32.34                   | 46.808            |                    |         |
| 4,800.00                   | 4,756.57            | 4,515.14            | 4,481.55            | 17.23           | 16.12       | 13.31                 | 1,930.34                          | -80.68     | 1,512.66             | 1,479.56              | 33.09                   | 45.707            |                    |         |
| 4,900.00                   | 4,854.40            | 4,615.13            | 4,579.65            | 17.61           | 16.50       | 13.34                 | 1,949.32                          | -84.63     | 1,511.42             | 1,477.58              | 33.85                   | 44.654            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,000.00                   | 4,952.23            | 4,715.12            | 4,677.74            | 17.99           | 16.88       | 13.36                 | 1,968.30                          | -88.57     | 1,510.19             | 1,475.59              | 34.60                   | 43.645            |                    |         |
| 5,100.00                   | 5,050.07            | 4,815.11            | 4,775.83            | 18.37           | 17.25       | 13.39                 | 1,987.28                          | -92.51     | 1,508.96             | 1,473.60              | 35.36                   | 42.678            |                    |         |
| 5,200.00                   | 5,147.90            | 4,915.10            | 4,873.93            | 18.75           | 17.63       | 13.41                 | 2,006.25                          | -96.46     | 1,507.72             | 1,471.61              | 36.11                   | 41.751            |                    |         |
| 5,300.00                   | 5,245.73            | 5,015.09            | 4,972.02            | 19.14           | 18.01       | 13.44                 | 2,025.23                          | -100.40    | 1,506.49             | 1,469.62              | 36.87                   | 40.862            |                    |         |
| 5,400.00                   | 5,343.56            | 5,115.08            | 5,070.11            | 19.52           | 18.39       | 13.46                 | 2,044.21                          | -104.34    | 1,505.26             | 1,467.63              | 37.62                   | 40.007            |                    |         |
| 5,500.00                   | 5,441.40            | 5,215.07            | 5,168.21            | 19.90           | 18.77       | 13.49                 | 2,063.19                          | -108.28    | 1,504.03             | 1,465.64              | 38.38                   | 39.185            |                    |         |
| 5,600.00                   | 5,539.23            | 5,315.06            | 5,266.30            | 20.29           | 19.15       | 13.51                 | 2,082.17                          | -112.23    | 1,502.79             | 1,463.65              | 39.14                   | 38.395            |                    |         |
| 5,700.00                   | 5,637.06            | 5,415.05            | 5,364.39            | 20.67           | 19.53       | 13.54                 | 2,101.15                          | -116.17    | 1,501.56             | 1,461.66              | 39.90                   | 37.634            |                    |         |
| 5,800.00                   | 5,734.90            | 5,515.04            | 5,462.49            | 21.05           | 19.91       | 13.56                 | 2,120.12                          | -120.11    | 1,500.33             | 1,459.67              | 40.66                   | 36.901            |                    |         |
| 5,900.00                   | 5,832.73            | 5,615.03            | 5,560.58            | 21.44           | 20.29       | 13.59                 | 2,139.10                          | -124.05    | 1,499.10             | 1,457.68              | 41.42                   | 36.194            |                    |         |
| 6,000.00                   | 5,930.56            | 5,715.02            | 5,658.67            | 21.83           | 20.67       | 13.61                 | 2,158.08                          | -128.00    | 1,497.87             | 1,455.69              | 42.18                   | 35.512            |                    |         |
| 6,100.00                   | 6,028.39            | 5,815.01            | 5,756.77            | 22.21           | 21.05       | 13.64                 | 2,177.06                          | -131.94    | 1,496.64             | 1,453.70              | 42.94                   | 34.855            |                    |         |
| 6,200.00                   | 6,126.23            | 5,915.00            | 5,854.86            | 22.60           | 21.43       | 13.67                 | 2,196.04                          | -135.88    | 1,495.41             | 1,451.71              | 43.70                   | 34.219            |                    |         |
| 6,300.00                   | 6,224.06            | 6,014.99            | 5,952.95            | 22.98           | 21.81       | 13.69                 | 2,215.02                          | -139.82    | 1,494.18             | 1,449.71              | 44.46                   | 33.605            |                    |         |
| 6,400.00                   | 6,321.89            | 6,114.98            | 6,051.05            | 23.37           | 22.20       | 13.72                 | 2,233.99                          | -143.77    | 1,492.95             | 1,447.72              | 45.22                   | 33.012            |                    |         |
| 6,500.00                   | 6,419.72            | 6,214.97            | 6,149.14            | 23.76           | 22.58       | 13.74                 | 2,252.97                          | -147.71    | 1,491.72             | 1,445.73              | 45.99                   | 32.438            |                    |         |
| 6,600.00                   | 6,517.56            | 6,314.96            | 6,247.23            | 24.14           | 22.96       | 13.77                 | 2,271.95                          | -151.65    | 1,490.49             | 1,443.74              | 46.75                   | 31.882            |                    |         |
| 6,700.00                   | 6,615.39            | 6,414.95            | 6,345.33            | 24.53           | 23.34       | 13.79                 | 2,290.93                          | -155.59    | 1,489.26             | 1,441.75              | 47.51                   | 31.345            |                    |         |
| 6,800.00                   | 6,713.22            | 6,514.94            | 6,443.42            | 24.92           | 23.73       | 13.82                 | 2,309.91                          | -159.54    | 1,488.03             | 1,439.76              | 48.28                   | 30.823            |                    |         |
| 6,900.00                   | 6,811.05            | 6,614.93            | 6,541.51            | 25.30           | 24.11       | 13.84                 | 2,328.89                          | -163.48    | 1,486.80             | 1,437.76              | 49.04                   | 30.318            |                    |         |
| 7,000.00                   | 6,908.89            | 6,714.92            | 6,639.61            | 25.69           | 24.49       | 13.87                 | 2,347.86                          | -167.42    | 1,485.57             | 1,435.77              | 49.80                   | 29.829            |                    |         |
| 7,100.00                   | 7,006.72            | 6,814.91            | 6,737.70            | 26.08           | 24.88       | 13.90                 | 2,366.84                          | -171.36    | 1,484.35             | 1,433.78              | 50.57                   | 29.354            |                    |         |
| 7,200.00                   | 7,104.55            | 6,914.90            | 6,835.79            | 26.47           | 25.26       | 13.92                 | 2,385.82                          | -175.31    | 1,483.12             | 1,431.79              | 51.33                   | 28.892            |                    |         |
| 7,216.87                   | 7,121.05            | 6,931.77            | 6,852.34            | 26.53           | 25.32       | 13.93                 | 2,389.02                          | -175.97    | 1,482.91             | 1,431.45              | 51.46                   | 28.816            |                    |         |
| 7,265.16                   | 7,168.36            | 6,980.06            | 6,899.72            | 26.72           | 25.51       | 13.93                 | 2,398.19                          | -177.88    | 1,482.62             | 1,430.79              | 51.83                   | 28.605 CC         |                    |         |
| 7,300.00                   | 7,202.57            | 7,014.90            | 6,933.89            | 26.85           | 25.64       | 13.94                 | 2,404.80                          | -179.25    | 1,482.77             | 1,430.67              | 52.10                   | 28.462            |                    |         |
| 7,400.00                   | 7,301.06            | 7,114.87            | 7,031.97            | 27.23           | 26.03       | 13.94                 | 2,423.78                          | -183.19    | 1,484.93             | 1,432.07              | 52.85                   | 28.094            |                    |         |
| 7,500.00                   | 7,399.97            | 7,214.76            | 7,129.96            | 27.61           | 26.41       | 13.93                 | 2,442.73                          | -187.13    | 1,489.62             | 1,436.01              | 53.61                   | 27.787            |                    |         |
| 7,600.00                   | 7,499.23            | 7,314.48            | 7,227.79            | 27.98           | 26.79       | 13.90                 | 2,461.66                          | -191.06    | 1,496.85             | 1,442.50              | 54.36                   | 27.538            |                    |         |
| 7,700.00                   | 7,598.77            | 7,413.98            | 7,325.40            | 28.34           | 27.18       | 13.85                 | 2,480.55                          | -194.99    | 1,506.62             | 1,451.52              | 55.10                   | 27.345            |                    |         |
| 7,800.00                   | 7,698.53            | 7,513.18            | 7,422.73            | 28.70           | 27.56       | 13.80                 | 2,499.38                          | -198.90    | 1,518.92             | 1,463.09              | 55.83                   | 27.206            |                    |         |
| 7,900.00                   | 7,798.44            | 7,612.02            | 7,519.69            | 29.05           | 27.94       | 13.73                 | 2,518.14                          | -202.79    | 1,533.74             | 1,477.18              | 56.56                   | 27.119            |                    |         |
| 8,000.00                   | 7,898.42            | 7,710.43            | 7,616.23            | 29.39           | 28.32       | 13.65                 | 2,536.82                          | -206.68    | 1,551.08             | 1,493.80              | 57.27                   | 27.082            |                    |         |
| 8,013.58                   | 7,912.00            | 7,723.76            | 7,629.30            | 29.43           | 28.37       | 0.86                  | 2,539.34                          | -207.20    | 1,553.62             | 1,496.25              | 57.37                   | 27.080            |                    |         |
| 8,100.00                   | 7,998.42            | 7,808.54            | 7,712.48            | 29.73           | 28.69       | 0.72                  | 2,555.44                          | -210.54    | 1,569.99             | 1,512.01              | 57.99                   | 27.076            |                    |         |
| 8,200.00                   | 8,098.42            | 7,906.64            | 7,808.72            | 30.07           | 29.07       | 0.57                  | 2,574.06                          | -214.41    | 1,588.94             | 1,530.25              | 58.70                   | 27.070            |                    |         |
| 8,300.00                   | 8,198.42            | 8,004.74            | 7,904.96            | 30.41           | 29.45       | 0.43                  | 2,592.68                          | -218.28    | 1,607.90             | 1,548.50              | 59.41                   | 27.065            |                    |         |
| 8,363.62                   | 8,262.04            | 8,067.16            | 7,966.19            | 30.62           | 29.69       | 0.33                  | 2,604.52                          | -220.74    | 1,619.97             | 1,560.11              | 59.86                   | 27.062            |                    |         |
| 8,400.00                   | 8,298.40            | 8,102.78            | 8,001.14            | 30.75           | 29.83       | -88.72                | 2,611.28                          | -222.15    | 1,626.86             | 1,566.74              | 60.12                   | 27.061            |                    |         |
| 8,450.00                   | 8,348.10            | 8,151.33            | 8,048.77            | 30.91           | 30.01       | -88.02                | 2,620.50                          | -224.06    | 1,636.25             | 1,575.79              | 60.46                   | 27.063            |                    |         |
| 8,500.00                   | 8,397.14            | 8,200.93            | 8,095.60            | 31.07           | 30.20       | -87.47                | 2,629.56                          | -225.94    | 1,645.56             | 1,584.75              | 60.81                   | 27.062            |                    |         |
| 8,550.00                   | 8,445.15            | 8,245.64            | 8,141.29            | 31.23           | 30.38       | -87.05                | 2,638.40                          | -227.78    | 1,654.79             | 1,593.66              | 61.13                   | 27.069            |                    |         |
| 8,600.00                   | 8,491.77            | 8,290.69            | 8,185.48            | 31.38           | 30.55       | -86.75                | 2,646.95                          | -229.55    | 1,663.99             | 1,602.53              | 61.46                   | 27.076            |                    |         |
| 8,650.00                   | 8,536.65            | 8,333.87            | 8,227.84            | 31.52           | 30.72       | -86.53                | 2,655.14                          | -231.26    | 1,673.22             | 1,611.45              | 61.77                   | 27.088            |                    |         |
| 8,700.00                   | 8,579.43            | 8,377.12            | 8,270.28            | 31.66           | 30.88       | -86.41                | 2,663.36                          | -232.78    | 1,682.57             | 1,620.49              | 62.08                   | 27.101            |                    |         |
| 8,750.00                   | 8,619.80            | 8,426.52            | 8,318.74            | 31.80           | 31.07       | -86.42                | 2,672.75                          | -231.34    | 1,691.96             | 1,629.53              | 62.44                   | 27.099            |                    |         |
| 8,800.00                   | 8,657.44            | 8,479.23            | 8,370.11            | 31.93           | 31.26       | -86.49                | 2,682.74                          | -225.12    | 1,701.29             | 1,638.48              | 62.81                   | 27.088            |                    |         |
| 8,850.00                   | 8,692.08            | 8,535.94            | 8,424.48            | 32.06           | 31.45       | -86.63                | 2,693.34                          | -213.10    | 1,710.46             | 1,647.27              | 63.19                   | 27.068            |                    |         |
| 8,900.00                   | 8,723.44            | 8,597.49            | 8,481.84            | 32.19           | 31.65       | -86.85                | 2,704.57                          | -193.92    | 1,719.38             | 1,655.79              | 63.59                   | 27.038            |                    |         |
| 8,950.00                   | 8,751.29            | 8,664.85            | 8,541.90            | 32.34           | 31.85       | -87.17                | 2,716.37                          | -165.89    | 1,727.91             | 1,663.90              | 64.00                   | 26.998            |                    |         |
| 9,000.00                   | 8,775.42            | 8,739.12            | 8,603.86            | 32.50           | 32.05       | -87.57                | 2,728.60                          | -126.91    | 1,735.88             | 1,671.46              | 64.42                   | 26.945            |                    |         |
| 9,050.00                   | 8,795.64            | 8,821.41            | 8,666.07            | 32.67           | 32.25       | -88.04                | 2,740.96                          | -74.60     | 1,743.11             | 1,678.25              | 64.86                   | 26.876            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,100.00                   | 8,811.80            | 8,912.59            | 8,725.62            | 32.87           | 32.45       | -88.56                | 2,752.90                          | -6.71      | 1,749.35             | 1,684.04              | 65.32                   | 26.782            |                    |         |
| 9,150.00                   | 8,823.77            | 9,012.96            | 8,778.01            | 33.10           | 32.72       | -89.07                | 2,763.55                          | 78.08      | 1,754.35             | 1,688.50              | 65.84                   | 26.644            |                    |         |
| 9,200.00                   | 8,831.47            | 9,121.67            | 8,817.44            | 33.34           | 33.15       | -89.50                | 2,771.79                          | 178.87     | 1,757.82             | 1,691.33              | 66.49                   | 26.438            |                    |         |
| 9,250.00                   | 8,834.84            | 9,236.36            | 8,838.02            | 33.60           | 33.71       | -89.75                | 2,776.44                          | 291.42     | 1,759.54             | 1,692.25              | 67.29                   | 26.147            |                    |         |
| 9,263.62                   | 8,835.00            | 9,268.17            | 8,839.77            | 33.67           | 33.88       | -89.78                | 2,776.97                          | 323.17     | 1,759.68             | 1,692.14              | 67.54                   | 26.054            |                    |         |
| 9,300.00                   | 8,835.00            | 9,313.89            | 8,840.00            | 33.88           | 34.15       | -89.79                | 2,777.29                          | 368.89     | 1,759.70             | 1,691.68              | 68.02                   | 25.870            |                    |         |
| 9,400.00                   | 8,835.00            | 9,413.89            | 8,840.00            | 34.53           | 34.80       | -89.79                | 2,777.88                          | 468.88     | 1,759.70             | 1,690.36              | 69.34                   | 25.379            |                    |         |
| 9,500.00                   | 8,835.00            | 9,513.89            | 8,840.00            | 35.30           | 35.56       | -89.79                | 2,778.47                          | 568.88     | 1,759.69             | 1,688.83              | 70.87                   | 24.831            |                    |         |
| 9,600.00                   | 8,835.00            | 9,613.89            | 8,840.00            | 36.17           | 36.42       | -89.79                | 2,779.07                          | 668.88     | 1,759.69             | 1,687.10              | 72.59                   | 24.241            |                    |         |
| 9,700.00                   | 8,835.00            | 9,713.89            | 8,840.00            | 37.13           | 37.37       | -89.79                | 2,779.66                          | 768.88     | 1,759.69             | 1,685.18              | 74.50                   | 23.618            |                    |         |
| 9,800.00                   | 8,835.00            | 9,813.89            | 8,840.00            | 38.18           | 38.40       | -89.79                | 2,780.25                          | 868.88     | 1,759.69             | 1,683.10              | 76.59                   | 22.976            |                    |         |
| 9,900.00                   | 8,835.00            | 9,913.89            | 8,840.00            | 39.31           | 39.52       | -89.79                | 2,780.85                          | 968.88     | 1,759.68             | 1,680.86              | 78.83                   | 22.323            |                    |         |
| 10,000.00                  | 8,835.00            | 10,013.89           | 8,840.00            | 40.51           | 40.70       | -89.79                | 2,781.44                          | 1,068.87   | 1,759.68             | 1,678.47              | 81.21                   | 21.667            |                    |         |
| 10,100.00                  | 8,835.00            | 10,113.89           | 8,840.00            | 41.78           | 41.95       | -89.79                | 2,782.04                          | 1,168.87   | 1,759.68             | 1,675.95              | 83.73                   | 21.016            |                    |         |
| 10,200.00                  | 8,835.00            | 10,213.89           | 8,840.00            | 43.10           | 43.26       | -89.79                | 2,782.63                          | 1,268.87   | 1,759.68             | 1,673.31              | 86.37                   | 20.374            |                    |         |
| 10,300.00                  | 8,835.00            | 10,313.89           | 8,840.00            | 44.49           | 44.63       | -89.79                | 2,783.22                          | 1,368.87   | 1,759.67             | 1,670.56              | 89.12                   | 19.746            |                    |         |
| 10,400.00                  | 8,835.00            | 10,413.89           | 8,840.00            | 45.92           | 46.05       | -89.79                | 2,783.82                          | 1,468.87   | 1,759.67             | 1,667.71              | 91.97                   | 19.134            |                    |         |
| 10,500.00                  | 8,835.00            | 10,513.89           | 8,840.00            | 47.39           | 47.51       | -89.79                | 2,784.41                          | 1,568.87   | 1,759.67             | 1,664.77              | 94.90                   | 18.542            |                    |         |
| 10,600.00                  | 8,835.00            | 10,613.89           | 8,840.00            | 48.91           | 49.02       | -89.79                | 2,785.00                          | 1,668.86   | 1,759.67             | 1,661.74              | 97.93                   | 17.969            |                    |         |
| 10,700.00                  | 8,835.00            | 10,713.89           | 8,840.00            | 50.47           | 50.56       | -89.79                | 2,785.60                          | 1,768.86   | 1,759.66             | 1,658.64              | 101.02                  | 17.418            |                    |         |
| 10,800.00                  | 8,835.00            | 10,813.89           | 8,840.00            | 52.06           | 52.14       | -89.79                | 2,786.19                          | 1,868.86   | 1,759.66             | 1,655.47              | 104.19                  | 16.889            |                    |         |
| 10,900.00                  | 8,835.00            | 10,913.89           | 8,840.00            | 53.68           | 53.74       | -89.79                | 2,786.78                          | 1,968.86   | 1,759.66             | 1,652.24              | 107.42                  | 16.381            |                    |         |
| 11,000.00                  | 8,835.00            | 11,013.89           | 8,840.00            | 55.32           | 55.38       | -89.79                | 2,787.38                          | 2,068.86   | 1,759.66             | 1,648.95              | 110.70                  | 15.895            |                    |         |
| 11,100.00                  | 8,835.00            | 11,113.89           | 8,840.00            | 57.00           | 57.05       | -89.79                | 2,787.97                          | 2,168.85   | 1,759.65             | 1,645.61              | 114.04                  | 15.430            |                    |         |
| 11,200.00                  | 8,835.00            | 11,213.89           | 8,840.00            | 58.70           | 58.73       | -89.79                | 2,788.56                          | 2,268.85   | 1,759.65             | 1,642.22              | 117.43                  | 14.985            |                    |         |
| 11,300.00                  | 8,835.00            | 11,313.89           | 8,840.00            | 60.41           | 60.44       | -89.79                | 2,789.16                          | 2,368.85   | 1,759.65             | 1,638.79              | 120.86                  | 14.560            |                    |         |
| 11,400.00                  | 8,835.00            | 11,413.89           | 8,840.00            | 62.15           | 62.17       | -89.79                | 2,789.75                          | 2,468.85   | 1,759.65             | 1,635.32              | 124.33                  | 14.153            |                    |         |
| 11,500.00                  | 8,835.00            | 11,513.89           | 8,840.00            | 63.91           | 63.92       | -89.79                | 2,790.34                          | 2,568.85   | 1,759.64             | 1,631.81              | 127.83                  | 13.765            |                    |         |
| 11,600.00                  | 8,835.00            | 11,613.89           | 8,840.00            | 65.69           | 65.69       | -89.79                | 2,790.94                          | 2,668.85   | 1,759.64             | 1,628.27              | 131.37                  | 13.394            |                    |         |
| 11,700.00                  | 8,835.00            | 11,713.89           | 8,840.00            | 67.47           | 67.47       | -89.79                | 2,791.53                          | 2,768.84   | 1,759.64             | 1,624.69              | 134.95                  | 13.040            |                    |         |
| 11,800.00                  | 8,835.00            | 11,813.89           | 8,840.00            | 69.28           | 69.27       | -89.79                | 2,792.12                          | 2,868.84   | 1,759.64             | 1,621.09              | 138.55                  | 12.701            |                    |         |
| 11,900.00                  | 8,835.00            | 11,913.89           | 8,840.00            | 71.09           | 71.08       | -89.79                | 2,792.72                          | 2,968.84   | 1,759.63             | 1,617.46              | 142.17                  | 12.377            |                    |         |
| 12,000.00                  | 8,835.00            | 12,013.89           | 8,840.00            | 72.92           | 72.90       | -89.79                | 2,793.31                          | 3,068.84   | 1,759.63             | 1,613.81              | 145.83                  | 12.067            |                    |         |
| 12,100.00                  | 8,835.00            | 12,113.89           | 8,840.00            | 74.76           | 74.73       | -89.79                | 2,793.90                          | 3,168.84   | 1,759.63             | 1,610.13              | 149.50                  | 11.770            |                    |         |
| 12,200.00                  | 8,835.00            | 12,213.89           | 8,840.00            | 76.61           | 76.58       | -89.79                | 2,794.50                          | 3,268.84   | 1,759.63             | 1,606.43              | 153.20                  | 11.486            |                    |         |
| 12,300.00                  | 8,835.00            | 12,313.89           | 8,840.00            | 78.47           | 78.43       | -89.79                | 2,795.09                          | 3,368.83   | 1,759.62             | 1,602.71              | 156.91                  | 11.214            |                    |         |
| 12,400.00                  | 8,835.00            | 12,413.89           | 8,840.00            | 80.34           | 80.30       | -89.79                | 2,795.68                          | 3,468.83   | 1,759.62             | 1,598.98              | 160.65                  | 10.953            |                    |         |
| 12,500.00                  | 8,835.00            | 12,513.89           | 8,840.00            | 82.22           | 82.17       | -89.79                | 2,796.28                          | 3,568.83   | 1,759.62             | 1,595.22              | 164.40                  | 10.704            |                    |         |
| 12,600.00                  | 8,835.00            | 12,613.89           | 8,840.00            | 84.11           | 84.05       | -89.79                | 2,796.87                          | 3,668.83   | 1,759.62             | 1,591.45              | 168.16                  | 10.464            |                    |         |
| 12,700.00                  | 8,835.00            | 12,713.89           | 8,840.00            | 86.00           | 85.94       | -89.79                | 2,797.46                          | 3,768.83   | 1,759.61             | 1,587.67              | 171.94                  | 10.234            |                    |         |
| 12,800.00                  | 8,835.00            | 12,813.89           | 8,840.00            | 87.90           | 87.84       | -89.79                | 2,798.06                          | 3,868.83   | 1,759.61             | 1,583.87              | 175.74                  | 10.013            |                    |         |
| 12,900.00                  | 8,835.00            | 12,913.89           | 8,840.00            | 89.81           | 89.74       | -89.79                | 2,798.65                          | 3,968.82   | 1,759.61             | 1,580.06              | 179.55                  | 9.800             |                    |         |
| 13,000.00                  | 8,835.00            | 13,013.89           | 8,840.00            | 91.72           | 91.65       | -89.79                | 2,799.24                          | 4,068.82   | 1,759.61             | 1,576.24              | 183.37                  | 9.596             |                    |         |
| 13,100.00                  | 8,835.00            | 13,113.89           | 8,840.00            | 93.64           | 93.56       | -89.79                | 2,799.84                          | 4,168.82   | 1,759.60             | 1,572.40              | 187.20                  | 9.399             |                    |         |
| 13,200.00                  | 8,835.00            | 13,213.89           | 8,840.00            | 95.56           | 95.48       | -89.79                | 2,800.43                          | 4,268.82   | 1,759.60             | 1,568.56              | 191.05                  | 9.210             |                    |         |
| 13,300.00                  | 8,835.00            | 13,313.89           | 8,840.00            | 97.49           | 97.41       | -89.79                | 2,801.02                          | 4,368.82   | 1,759.60             | 1,564.70              | 194.90                  | 9.028             |                    |         |
| 13,400.00                  | 8,835.00            | 13,413.89           | 8,840.00            | 99.42           | 99.33       | -89.79                | 2,801.62                          | 4,468.81   | 1,759.60             | 1,560.83              | 198.76                  | 8.853             |                    |         |
| 13,500.00                  | 8,835.00            | 13,513.89           | 8,840.00            | 101.36          | 101.27      | -89.79                | 2,802.21                          | 4,568.81   | 1,759.59             | 1,556.96              | 202.63                  | 8.684             |                    |         |
| 13,600.00                  | 8,835.00            | 13,613.89           | 8,840.00            | 103.30          | 103.21      | -89.79                | 2,802.80                          | 4,668.81   | 1,759.59             | 1,553.08              | 206.51                  | 8.520             |                    |         |
| 13,700.00                  | 8,835.00            | 13,713.89           | 8,840.00            | 105.25          | 105.15      | -89.79                | 2,803.40                          | 4,768.81   | 1,759.59             | 1,549.19              | 210.40                  | 8.363             |                    |         |
| 13,800.00                  | 8,835.00            | 13,813.89           | 8,840.00            | 107.20          | 107.10      | -89.79                | 2,803.99                          | 4,868.81   | 1,759.59             | 1,545.29              | 214.30                  | 8.211             |                    |         |
| 13,900.00                  | 8,835.00            | 13,913.89           | 8,840.00            | 109.15          | 109.05      | -89.79                | 2,804.58                          | 4,968.81   | 1,759.58             | 1,541.38              | 218.20                  | 8.064             |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 331H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|-----------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1                                                                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                                                                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                                                                                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 14,000.00                                                                                                 | 8,835.00            | 14,013.89           | 8,840.00            | 111.10          | 111.00      | -89.79                | 2,805.18                          | 5,068.80   | 1,759.58             | 1,537.47              | 222.11                  | 7.922             |                    |         |
| 14,100.00                                                                                                 | 8,835.00            | 14,113.89           | 8,840.00            | 113.06          | 112.96      | -89.79                | 2,805.77                          | 5,168.80   | 1,759.58             | 1,533.55              | 226.03                  | 7.785             |                    |         |
| 14,200.00                                                                                                 | 8,835.00            | 14,213.89           | 8,840.00            | 115.03          | 114.92      | -89.79                | 2,806.36                          | 5,268.80   | 1,759.58             | 1,529.62              | 229.95                  | 7.652             |                    |         |
| 14,300.00                                                                                                 | 8,835.00            | 14,313.89           | 8,840.00            | 116.99          | 116.88      | -89.79                | 2,806.96                          | 5,368.80   | 1,759.57             | 1,525.69              | 233.88                  | 7.523             |                    |         |
| 14,400.00                                                                                                 | 8,835.00            | 14,413.89           | 8,840.00            | 118.96          | 118.85      | -89.79                | 2,807.55                          | 5,468.80   | 1,759.57             | 1,521.76              | 237.81                  | 7.399             |                    |         |
| 14,500.00                                                                                                 | 8,835.00            | 14,513.89           | 8,840.00            | 120.93          | 120.81      | -89.79                | 2,808.14                          | 5,568.80   | 1,759.57             | 1,517.82              | 241.75                  | 7.278             |                    |         |
| 14,600.00                                                                                                 | 8,835.00            | 14,613.89           | 8,840.00            | 122.90          | 122.79      | -89.79                | 2,808.74                          | 5,668.79   | 1,759.57             | 1,513.87              | 245.70                  | 7.162             |                    |         |
| 14,700.00                                                                                                 | 8,835.00            | 14,713.89           | 8,840.00            | 124.88          | 124.76      | -89.79                | 2,809.33                          | 5,768.79   | 1,759.56             | 1,509.92              | 249.65                  | 7.048             |                    |         |
| 14,800.00                                                                                                 | 8,835.00            | 14,813.89           | 8,840.00            | 126.86          | 126.73      | -89.79                | 2,809.93                          | 5,868.79   | 1,759.56             | 1,505.96              | 253.60                  | 6.938             |                    |         |
| 14,900.00                                                                                                 | 8,835.00            | 14,913.89           | 8,840.00            | 128.84          | 128.71      | -89.79                | 2,810.52                          | 5,968.79   | 1,759.56             | 1,502.00              | 257.56                  | 6.832             |                    |         |
| 15,000.00                                                                                                 | 8,835.00            | 15,013.89           | 8,840.00            | 130.82          | 130.69      | -89.79                | 2,811.11                          | 6,068.79   | 1,759.56             | 1,498.04              | 261.52                  | 6.728             |                    |         |
| 15,100.00                                                                                                 | 8,835.00            | 15,113.89           | 8,840.00            | 132.80          | 132.67      | -89.79                | 2,811.71                          | 6,168.78   | 1,759.55             | 1,494.07              | 265.49                  | 6.628             |                    |         |
| 15,200.00                                                                                                 | 8,835.00            | 15,213.89           | 8,840.00            | 134.79          | 134.66      | -89.79                | 2,812.30                          | 6,268.78   | 1,759.55             | 1,490.09              | 269.46                  | 6.530             |                    |         |
| 15,300.00                                                                                                 | 8,835.00            | 15,313.89           | 8,840.00            | 136.78          | 136.64      | -89.79                | 2,812.89                          | 6,368.78   | 1,759.55             | 1,486.12              | 273.43                  | 6.435             |                    |         |
| 15,400.00                                                                                                 | 8,835.00            | 15,413.89           | 8,840.00            | 138.76          | 138.63      | -89.79                | 2,813.49                          | 6,468.78   | 1,759.55             | 1,482.14              | 277.41                  | 6.343             |                    |         |
| 15,500.00                                                                                                 | 8,835.00            | 15,513.89           | 8,840.00            | 140.76          | 140.62      | -89.79                | 2,814.08                          | 6,568.78   | 1,759.54             | 1,478.16              | 281.39                  | 6.253             |                    |         |
| 15,600.00                                                                                                 | 8,835.00            | 15,613.89           | 8,840.00            | 142.75          | 142.61      | -89.79                | 2,814.67                          | 6,668.78   | 1,759.54             | 1,474.17              | 285.37                  | 6.166             |                    |         |
| 15,700.00                                                                                                 | 8,835.00            | 15,713.89           | 8,840.00            | 144.74          | 144.60      | -89.79                | 2,815.27                          | 6,768.77   | 1,759.54             | 1,470.18              | 289.36                  | 6.081             |                    |         |
| 15,800.00                                                                                                 | 8,835.00            | 15,813.89           | 8,840.00            | 146.74          | 146.60      | -89.79                | 2,815.86                          | 6,868.77   | 1,759.54             | 1,466.19              | 293.35                  | 5.998             |                    |         |
| 15,900.00                                                                                                 | 8,835.00            | 15,913.89           | 8,840.00            | 148.73          | 148.59      | -89.79                | 2,816.45                          | 6,968.77   | 1,759.53             | 1,462.20              | 297.34                  | 5.918             |                    |         |
| 16,000.00                                                                                                 | 8,835.00            | 16,013.89           | 8,840.00            | 150.73          | 150.59      | -89.79                | 2,817.05                          | 7,068.77   | 1,759.53             | 1,458.20              | 301.33                  | 5.839             |                    |         |
| 16,100.00                                                                                                 | 8,835.00            | 16,113.89           | 8,840.00            | 152.73          | 152.59      | -89.79                | 2,817.64                          | 7,168.77   | 1,759.53             | 1,454.20              | 305.33                  | 5.763             |                    |         |
| 16,200.00                                                                                                 | 8,835.00            | 16,213.89           | 8,840.00            | 154.73          | 154.59      | -89.79                | 2,818.23                          | 7,268.77   | 1,759.53             | 1,450.20              | 309.33                  | 5.688             |                    |         |
| 16,300.00                                                                                                 | 8,835.00            | 16,313.89           | 8,840.00            | 156.73          | 156.59      | -89.79                | 2,818.83                          | 7,368.76   | 1,759.52             | 1,446.19              | 313.33                  | 5.615             |                    |         |
| 16,400.00                                                                                                 | 8,835.00            | 16,413.89           | 8,840.00            | 158.74          | 158.59      | -89.79                | 2,819.42                          | 7,468.76   | 1,759.52             | 1,442.18              | 317.34                  | 5.545             |                    |         |
| 16,500.00                                                                                                 | 8,835.00            | 16,513.89           | 8,840.00            | 160.74          | 160.59      | -89.79                | 2,820.01                          | 7,568.76   | 1,759.52             | 1,438.17              | 321.35                  | 5.475             |                    |         |
| 16,600.00                                                                                                 | 8,835.00            | 16,613.89           | 8,840.00            | 162.74          | 162.60      | -89.79                | 2,820.61                          | 7,668.76   | 1,759.52             | 1,434.16              | 325.35                  | 5.408             |                    |         |
| 16,700.00                                                                                                 | 8,835.00            | 16,713.89           | 8,840.00            | 164.75          | 164.60      | -89.79                | 2,821.20                          | 7,768.76   | 1,759.51             | 1,430.15              | 329.37                  | 5.342             |                    |         |
| 16,800.00                                                                                                 | 8,835.00            | 16,813.89           | 8,840.00            | 166.76          | 166.61      | -89.79                | 2,821.79                          | 7,868.75   | 1,759.51             | 1,426.13              | 333.38                  | 5.278             |                    |         |
| 16,900.00                                                                                                 | 8,835.00            | 16,913.89           | 8,840.00            | 168.77          | 168.61      | -89.79                | 2,822.39                          | 7,968.75   | 1,759.51             | 1,422.12              | 337.39                  | 5.215             |                    |         |
| 17,000.00                                                                                                 | 8,835.00            | 17,013.89           | 8,840.00            | 170.77          | 170.62      | -89.79                | 2,822.98                          | 8,068.75   | 1,759.51             | 1,418.10              | 341.41                  | 5.154             |                    |         |
| 17,100.00                                                                                                 | 8,835.00            | 17,113.89           | 8,840.00            | 172.78          | 172.63      | -89.79                | 2,823.57                          | 8,168.75   | 1,759.50             | 1,414.08              | 345.43                  | 5.094             |                    |         |
| 17,200.00                                                                                                 | 8,835.00            | 17,213.89           | 8,840.00            | 174.79          | 174.64      | -89.79                | 2,824.17                          | 8,268.75   | 1,759.50             | 1,410.05              | 349.45                  | 5.035             |                    |         |
| 17,300.00                                                                                                 | 8,835.00            | 17,313.89           | 8,840.00            | 176.81          | 176.65      | -89.79                | 2,824.76                          | 8,368.75   | 1,759.50             | 1,406.03              | 353.47                  | 4.978 Alert       |                    |         |
| 17,400.00                                                                                                 | 8,835.00            | 17,413.89           | 8,840.00            | 178.82          | 178.66      | -89.79                | 2,825.35                          | 8,468.74   | 1,759.50             | 1,402.00              | 357.49                  | 4.922 Alert       |                    |         |
| 17,500.00                                                                                                 | 8,835.00            | 17,513.89           | 8,840.00            | 180.83          | 180.67      | -89.79                | 2,825.95                          | 8,568.74   | 1,759.49             | 1,397.97              | 361.52                  | 4.867 Alert       |                    |         |
| 17,600.00                                                                                                 | 8,835.00            | 17,613.89           | 8,840.00            | 182.84          | 182.69      | -89.79                | 2,826.54                          | 8,668.74   | 1,759.49             | 1,393.95              | 365.55                  | 4.813 Alert       |                    |         |
| 17,700.00                                                                                                 | 8,835.00            | 17,713.89           | 8,840.00            | 184.86          | 184.70      | -89.79                | 2,827.13                          | 8,768.74   | 1,759.49             | 1,389.91              | 369.57                  | 4.761 Alert       |                    |         |
| 17,800.00                                                                                                 | 8,835.00            | 17,813.89           | 8,840.00            | 186.87          | 186.71      | -89.79                | 2,827.73                          | 8,868.74   | 1,759.49             | 1,385.88              | 373.60                  | 4.710 Alert       |                    |         |
| 17,900.00                                                                                                 | 8,835.00            | 17,913.89           | 8,840.00            | 188.89          | 188.73      | -89.79                | 2,828.32                          | 8,968.74   | 1,759.48             | 1,381.85              | 377.63                  | 4.659 Alert       |                    |         |
| 18,000.00                                                                                                 | 8,835.00            | 18,013.89           | 8,840.00            | 190.91          | 190.75      | -89.79                | 2,828.91                          | 9,068.73   | 1,759.48             | 1,377.81              | 381.67                  | 4.610 Alert       |                    |         |
| 18,100.00                                                                                                 | 8,835.00            | 18,113.89           | 8,840.00            | 192.92          | 192.76      | -89.79                | 2,829.51                          | 9,168.73   | 1,759.48             | 1,373.78              | 385.70                  | 4.562 Alert       |                    |         |
| 18,200.00                                                                                                 | 8,835.00            | 18,213.89           | 8,840.00            | 194.94          | 194.78      | -89.79                | 2,830.10                          | 9,268.73   | 1,759.48             | 1,369.74              | 389.73                  | 4.515 Alert       |                    |         |
| 18,300.00                                                                                                 | 8,835.00            | 18,313.89           | 8,840.00            | 196.96          | 196.80      | -89.79                | 2,830.69                          | 9,368.73   | 1,759.47             | 1,365.70              | 393.77                  | 4.468 Alert       |                    |         |
| 18,400.00                                                                                                 | 8,835.00            | 18,413.89           | 8,840.00            | 198.98          | 198.81      | -89.79                | 2,831.29                          | 9,468.73   | 1,759.47             | 1,361.66              | 397.81                  | 4.423 Alert       |                    |         |
| 18,500.00                                                                                                 | 8,835.00            | 18,513.89           | 8,840.00            | 201.00          | 200.83      | -89.79                | 2,831.88                          | 9,568.72   | 1,759.47             | 1,357.62              | 401.85                  | 4.378 Alert       |                    |         |
| 18,600.00                                                                                                 | 8,835.00            | 18,613.89           | 8,840.00            | 203.02          | 202.85      | -89.79                | 2,832.47                          | 9,668.72   | 1,759.47             | 1,353.58              | 405.88                  | 4.335 Alert       |                    |         |
| 18,700.00                                                                                                 | 8,835.00            | 18,713.89           | 8,840.00            | 205.04          | 204.87      | -89.79                | 2,833.07                          | 9,768.72   | 1,759.46             | 1,349.54              | 409.92                  | 4.292 Alert       |                    |         |
| 18,800.00                                                                                                 | 8,835.00            | 18,813.89           | 8,840.00            | 207.06          | 206.89      | -89.79                | 2,833.66                          | 9,868.72   | 1,759.46             | 1,345.50              | 413.97                  | 4.250 Alert       |                    |         |
| 18,900.00                                                                                                 | 8,835.00            | 18,913.89           | 8,840.00            | 209.08          | 208.91      | -89.79                | 2,834.25                          | 9,968.72   | 1,759.46             | 1,341.45              | 418.01                  | 4.209 Alert       |                    |         |
| 19,000.00                                                                                                 | 8,835.00            | 19,013.89           | 8,840.00            | 211.10          | 210.93      | -89.79                | 2,834.85                          | 10,068.72  | 1,759.46             | 1,337.40              | 422.05                  | 4.169 Alert       |                    |         |
| 19,100.00                                                                                                 | 8,835.00            | 19,113.89           | 8,840.00            | 213.12          | 212.96      | -89.79                | 2,835.44                          | 10,168.71  | 1,759.45             | 1,333.36              | 426.10                  | 4.129 Alert       |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 331H - Wellbore #1 - Permit Plan 1 |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 0.00 ft       |
|-----------------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|---------------|
| Survey Program: 0-MWD+IFR1                                                                                |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 0.50 ft       |
| Reference                                                                                                 |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                           | Warning       |
| Measured Depth<br>(ft)                                                                                    | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |               |
| 19,200.00                                                                                                 | 8,835.00               | 19,213.89              | 8,840.00               | 215.15            | 214.98         | -89.79                      | 2,836.04                                | 10,268.71     | 1,759.45                   | 1,329.31                    | 430.14                        | 4.090                     | Alert         |
| 19,308.27                                                                                                 | 8,835.00               | 19,322.16              | 8,840.00               | 217.34            | 217.17         | -89.79                      | 2,836.68                                | 10,376.98     | 1,759.45                   | 1,324.93                    | 434.52                        | 4.049                     | Alert, ES, SF |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                       | 0.00                | 10.20               | 10.20               | 0.50            | 0.50        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             |                       |                         |                   |                    |         |
| 100.00                     | 100.00              | 110.20              | 110.20              | 0.52            | 0.53        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,497.65              | 1.05                    | 1,432.535         |                    |         |
| 200.00                     | 200.00              | 210.20              | 210.20              | 0.70            | 0.73        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,497.27              | 1.43                    | 1,047.790         |                    |         |
| 300.00                     | 300.00              | 310.20              | 310.20              | 0.99            | 1.02        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,496.69              | 2.01                    | 746.970           |                    |         |
| 400.00                     | 400.00              | 410.20              | 410.20              | 1.31            | 1.34        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,496.04              | 2.65                    | 565.110           |                    |         |
| 500.00                     | 500.00              | 510.20              | 510.20              | 1.65            | 1.68        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,495.37              | 3.33                    | 450.458           |                    |         |
| 600.00                     | 600.00              | 610.20              | 610.20              | 1.99            | 2.03        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,494.68              | 4.02                    | 373.124           |                    |         |
| 700.00                     | 700.00              | 710.20              | 710.20              | 2.34            | 2.38        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,493.98              | 4.71                    | 317.900           |                    |         |
| 800.00                     | 800.00              | 810.20              | 810.20              | 2.69            | 2.73        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,493.28              | 5.42                    | 276.659           |                    |         |
| 900.00                     | 900.00              | 910.20              | 910.20              | 3.04            | 3.08        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,492.57              | 6.12                    | 244.758           |                    |         |
| 1,000.00                   | 1,000.00            | 1,010.20            | 1,010.20            | 3.40            | 3.43        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,491.87              | 6.83                    | 219.380           |                    |         |
| 1,100.00                   | 1,100.00            | 1,110.20            | 1,110.20            | 3.75            | 3.79        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,491.16              | 7.54                    | 198.728           |                    |         |
| 1,200.00                   | 1,200.00            | 1,210.20            | 1,210.20            | 4.11            | 4.14        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,490.44              | 8.25                    | 181.603           |                    |         |
| 1,300.00                   | 1,300.00            | 1,310.20            | 1,310.20            | 4.46            | 4.50        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,489.73              | 8.96                    | 167.178           |                    |         |
| 1,400.00                   | 1,400.00            | 1,410.20            | 1,410.20            | 4.82            | 4.86        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,489.02              | 9.68                    | 154.864           |                    |         |
| 1,500.00                   | 1,500.00            | 1,510.20            | 1,510.20            | 5.18            | 5.21        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,488.31              | 10.39                   | 144.232           |                    |         |
| 1,600.00                   | 1,600.00            | 1,610.20            | 1,610.20            | 5.53            | 5.57        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,487.59              | 11.10                   | 134.961           |                    |         |
| 1,700.00                   | 1,700.00            | 1,710.20            | 1,710.20            | 5.89            | 5.93        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,486.88              | 11.82                   | 126.805           |                    |         |
| 1,800.00                   | 1,800.00            | 1,810.20            | 1,810.20            | 6.25            | 6.28        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,486.16              | 12.53                   | 119.576           |                    |         |
| 1,900.00                   | 1,900.00            | 1,910.20            | 1,910.20            | 6.61            | 6.64        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,485.45              | 13.25                   | 113.125           |                    |         |
| 2,000.00                   | 2,000.00            | 2,010.20            | 2,010.20            | 6.96            | 7.00        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,484.73              | 13.96                   | 107.332           |                    |         |
| 2,100.00                   | 2,099.99            | 2,110.19            | 2,110.19            | 7.32            | 7.36        | 12.66                 | 1,498.69                          | -3.30      | 1,497.85             | 1,483.17              | 14.68                   | 102.046           |                    |         |
| 2,200.00                   | 2,199.96            | 2,210.16            | 2,210.16            | 7.68            | 7.71        | 12.69                 | 1,498.69                          | -3.30      | 1,495.29             | 1,479.90              | 15.39                   | 97.140            |                    |         |
| 2,300.00                   | 2,299.86            | 2,310.06            | 2,310.06            | 8.04            | 8.07        | 12.74                 | 1,498.69                          | -3.30      | 1,491.04             | 1,474.93              | 16.11                   | 92.565            |                    |         |
| 2,400.00                   | 2,399.68            | 2,409.88            | 2,409.88            | 8.39            | 8.43        | 12.80                 | 1,498.69                          | -3.30      | 1,485.08             | 1,468.26              | 16.82                   | 88.280            |                    |         |
| 2,500.00                   | 2,499.37            | 2,509.57            | 2,509.57            | 8.75            | 8.79        | 12.89                 | 1,498.69                          | -3.30      | 1,477.43             | 1,459.89              | 17.54                   | 84.249            |                    |         |
| 2,600.00                   | 2,598.90            | 2,609.10            | 2,609.10            | 9.11            | 9.14        | 12.99                 | 1,498.69                          | -3.30      | 1,468.09             | 1,449.84              | 18.25                   | 80.443            |                    |         |
| 2,700.00                   | 2,698.26            | 2,708.46            | 2,708.46            | 9.46            | 9.50        | 13.12                 | 1,498.69                          | -3.30      | 1,457.06             | 1,438.09              | 18.96                   | 76.838            |                    |         |
| 2,800.00                   | 2,797.40            | 2,788.31            | 2,788.30            | 9.82            | 9.78        | 13.22                 | 1,499.28                          | -3.64      | 1,445.06             | 1,425.46              | 19.60                   | 73.710            |                    |         |
| 2,900.00                   | 2,896.30            | 2,869.78            | 2,869.75            | 10.18           | 10.07       | 13.33                 | 1,500.88                          | -4.54      | 1,432.60             | 1,412.35              | 20.25                   | 70.746            |                    |         |
| 3,000.00                   | 2,994.93            | 2,951.35            | 2,951.27            | 10.54           | 10.36       | 13.42                 | 1,503.49                          | -6.02      | 1,419.68             | 1,398.79              | 20.89                   | 67.946            |                    |         |
| 3,100.00                   | 3,093.26            | 3,033.02            | 3,032.83            | 10.90           | 10.65       | 13.51                 | 1,507.11                          | -8.08      | 1,406.30             | 1,384.76              | 21.54                   | 65.295            |                    |         |
| 3,195.07                   | 3,186.42            | 3,110.75            | 3,110.40            | 11.24           | 10.93       | 13.59                 | 1,511.49                          | -10.57     | 1,393.16             | 1,371.01              | 22.15                   | 62.901            |                    |         |
| 3,200.00                   | 3,191.25            | 3,114.79            | 3,114.42            | 11.26           | 10.95       | 13.59                 | 1,511.74                          | -10.71     | 1,392.47             | 1,370.29              | 22.18                   | 62.778            |                    |         |
| 3,300.00                   | 3,289.08            | 3,196.76            | 3,196.14            | 11.62           | 11.24       | 13.62                 | 1,517.41                          | -13.93     | 1,379.10             | 1,356.27              | 22.82                   | 60.427            |                    |         |
| 3,400.00                   | 3,386.91            | 3,284.23            | 3,283.22            | 11.98           | 11.55       | 13.63                 | 1,524.50                          | -17.96     | 1,366.90             | 1,343.41              | 23.49                   | 58.195            |                    |         |
| 3,500.00                   | 3,484.74            | 3,383.52            | 3,382.05            | 12.35           | 11.90       | 13.63                 | 1,532.83                          | -22.69     | 1,354.99             | 1,330.78              | 24.21                   | 55.973            |                    |         |
| 3,600.00                   | 3,582.58            | 3,482.80            | 3,480.87            | 12.72           | 12.26       | 13.63                 | 1,541.16                          | -27.42     | 1,343.08             | 1,318.15              | 24.93                   | 53.876            |                    |         |
| 3,700.00                   | 3,680.41            | 3,582.09            | 3,579.70            | 13.09           | 12.61       | 13.63                 | 1,549.49                          | -32.15     | 1,331.17             | 1,305.52              | 25.65                   | 51.894            |                    |         |
| 3,800.00                   | 3,778.24            | 3,681.38            | 3,678.53            | 13.46           | 12.97       | 13.63                 | 1,557.82                          | -36.88     | 1,319.27             | 1,292.89              | 26.38                   | 50.018            |                    |         |
| 3,900.00                   | 3,876.08            | 3,780.67            | 3,777.35            | 13.83           | 13.32       | 13.63                 | 1,566.15                          | -41.61     | 1,307.36             | 1,280.26              | 27.10                   | 48.239            |                    |         |
| 4,000.00                   | 3,973.91            | 3,879.96            | 3,876.18            | 14.21           | 13.68       | 13.63                 | 1,574.48                          | -46.34     | 1,295.45             | 1,267.62              | 27.83                   | 46.551            |                    |         |
| 4,100.00                   | 4,071.74            | 3,979.25            | 3,975.00            | 14.58           | 14.04       | 13.63                 | 1,582.80                          | -51.07     | 1,283.55             | 1,254.99              | 28.56                   | 44.947            |                    |         |
| 4,200.00                   | 4,169.57            | 4,078.54            | 4,073.83            | 14.96           | 14.39       | 13.63                 | 1,591.13                          | -55.80     | 1,271.64             | 1,242.35              | 29.29                   | 43.421            |                    |         |
| 4,300.00                   | 4,267.41            | 4,177.82            | 4,172.65            | 15.33           | 14.75       | 13.63                 | 1,599.46                          | -60.53     | 1,259.73             | 1,229.72              | 30.02                   | 41.968            |                    |         |
| 4,400.00                   | 4,365.24            | 4,277.11            | 4,271.48            | 15.71           | 15.11       | 13.63                 | 1,607.79                          | -65.26     | 1,247.82             | 1,217.08              | 30.75                   | 40.583            |                    |         |
| 4,500.00                   | 4,463.07            | 4,376.40            | 4,370.30            | 16.09           | 15.47       | 13.63                 | 1,616.12                          | -69.99     | 1,235.92             | 1,204.44              | 31.48                   | 39.261            |                    |         |
| 4,600.00                   | 4,560.90            | 4,475.69            | 4,469.13            | 16.47           | 15.82       | 13.63                 | 1,624.45                          | -74.72     | 1,224.01             | 1,191.80              | 32.21                   | 37.999            |                    |         |
| 4,700.00                   | 4,658.74            | 4,574.98            | 4,567.95            | 16.85           | 16.18       | 13.63                 | 1,632.78                          | -79.45     | 1,212.10             | 1,179.16              | 32.95                   | 36.791            |                    |         |
| 4,800.00                   | 4,756.57            | 4,674.27            | 4,666.78            | 17.23           | 16.54       | 13.64                 | 1,641.11                          | -84.18     | 1,200.20             | 1,166.52              | 33.68                   | 35.636            |                    |         |
| 4,900.00                   | 4,854.40            | 4,773.56            | 4,765.61            | 17.61           | 16.90       | 13.64                 | 1,649.44                          | -88.91     | 1,188.29             | 1,153.87              | 34.41                   | 34.529            |                    |         |
| 5,000.00                   | 4,952.23            | 4,872.84            | 4,864.43            | 17.99           | 17.26       | 13.64                 | 1,657.77                          | -93.64     | 1,176.38             | 1,141.23              | 35.15                   | 33.467            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 332H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|-----------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1                                                                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                                                                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                                                                                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                                                                                                  | 5,050.07            | 4,972.13            | 4,963.26            | 18.37           | 17.62       | 13.64                 | 1,666.10                          | -98.37     | 1,164.47             | 1,128.59              | 35.89                   | 32.449            |                    |         |
| 5,200.00                                                                                                  | 5,147.90            | 5,071.42            | 5,062.08            | 18.75           | 17.98       | 13.64                 | 1,674.43                          | -103.10    | 1,152.57             | 1,115.94              | 36.62                   | 31.471            |                    |         |
| 5,300.00                                                                                                  | 5,245.73            | 5,170.71            | 5,160.91            | 19.14           | 18.34       | 13.64                 | 1,682.76                          | -107.83    | 1,140.66             | 1,103.30              | 37.36                   | 30.532            |                    |         |
| 5,400.00                                                                                                  | 5,343.56            | 5,270.00            | 5,259.73            | 19.52           | 18.69       | 13.64                 | 1,691.08                          | -112.56    | 1,128.75             | 1,090.66              | 38.10                   | 29.628            |                    |         |
| 5,500.00                                                                                                  | 5,441.40            | 5,369.29            | 5,358.56            | 19.90           | 19.05       | 13.64                 | 1,699.41                          | -117.29    | 1,116.85             | 1,078.01              | 38.84                   | 28.758            |                    |         |
| 5,600.00                                                                                                  | 5,539.23            | 5,468.58            | 5,457.38            | 20.29           | 19.41       | 13.64                 | 1,707.74                          | -122.02    | 1,104.94             | 1,065.36              | 39.57                   | 27.921            |                    |         |
| 5,700.00                                                                                                  | 5,637.06            | 5,567.86            | 5,556.21            | 20.67           | 19.77       | 13.64                 | 1,716.07                          | -126.75    | 1,093.03             | 1,052.72              | 40.31                   | 27.114            |                    |         |
| 5,800.00                                                                                                  | 5,734.90            | 5,667.15            | 5,655.03            | 21.05           | 20.13       | 13.64                 | 1,724.40                          | -131.48    | 1,081.13             | 1,040.07              | 41.05                   | 26.335            |                    |         |
| 5,900.00                                                                                                  | 5,832.73            | 5,766.44            | 5,753.86            | 21.44           | 20.49       | 13.65                 | 1,732.73                          | -136.21    | 1,069.22             | 1,027.43              | 41.79                   | 25.584            |                    |         |
| 6,000.00                                                                                                  | 5,930.56            | 5,865.73            | 5,852.69            | 21.83           | 20.85       | 13.65                 | 1,741.06                          | -140.94    | 1,057.31             | 1,014.78              | 42.53                   | 24.859            |                    |         |
| 6,100.00                                                                                                  | 6,028.39            | 5,965.02            | 5,951.51            | 22.21           | 21.21       | 13.65                 | 1,749.39                          | -145.67    | 1,045.40             | 1,002.13              | 43.27                   | 24.158            |                    |         |
| 6,200.00                                                                                                  | 6,126.23            | 6,064.31            | 6,050.34            | 22.60           | 21.57       | 13.65                 | 1,757.72                          | -150.40    | 1,033.50             | 989.48                | 44.01                   | 23.481            |                    |         |
| 6,300.00                                                                                                  | 6,224.06            | 6,163.60            | 6,149.16            | 22.98           | 21.94       | 13.65                 | 1,766.05                          | -155.13    | 1,021.59             | 976.84                | 44.75                   | 22.827            |                    |         |
| 6,400.00                                                                                                  | 6,321.89            | 6,262.88            | 6,247.99            | 23.37           | 22.30       | 13.65                 | 1,774.38                          | -159.86    | 1,009.68             | 964.19                | 45.50                   | 22.193            |                    |         |
| 6,500.00                                                                                                  | 6,419.72            | 6,362.17            | 6,346.81            | 23.76           | 22.66       | 13.65                 | 1,782.71                          | -164.59    | 997.78               | 951.54                | 46.24                   | 21.579            |                    |         |
| 6,600.00                                                                                                  | 6,517.56            | 6,461.46            | 6,445.64            | 24.14           | 23.02       | 13.65                 | 1,791.03                          | -169.32    | 985.87               | 938.89                | 46.98                   | 20.985            |                    |         |
| 6,700.00                                                                                                  | 6,615.39            | 6,560.75            | 6,544.46            | 24.53           | 23.38       | 13.65                 | 1,799.36                          | -174.05    | 973.96               | 926.24                | 47.72                   | 20.409            |                    |         |
| 6,800.00                                                                                                  | 6,713.22            | 6,660.04            | 6,643.29            | 24.92           | 23.74       | 13.66                 | 1,807.69                          | -178.78    | 962.05               | 913.59                | 48.46                   | 19.851            |                    |         |
| 6,900.00                                                                                                  | 6,811.05            | 6,759.33            | 6,742.11            | 25.30           | 24.10       | 13.66                 | 1,816.02                          | -183.51    | 950.15               | 900.94                | 49.21                   | 19.309            |                    |         |
| 7,000.00                                                                                                  | 6,908.89            | 6,858.62            | 6,840.94            | 25.69           | 24.46       | 13.66                 | 1,824.35                          | -188.24    | 938.24               | 888.29                | 49.95                   | 18.784            |                    |         |
| 7,100.00                                                                                                  | 7,006.72            | 6,957.90            | 6,939.77            | 26.08           | 24.82       | 13.66                 | 1,832.68                          | -192.97    | 926.33               | 875.64                | 50.69                   | 18.274            |                    |         |
| 7,200.00                                                                                                  | 7,104.55            | 7,057.19            | 7,038.59            | 26.47           | 25.18       | 13.66                 | 1,841.01                          | -197.70    | 914.43               | 862.99                | 51.44                   | 17.778            |                    |         |
| 7,216.87                                                                                                  | 7,121.05            | 7,073.94            | 7,055.26            | 26.53           | 25.24       | 13.66                 | 1,842.42                          | -198.50    | 912.42               | 860.86                | 51.56                   | 17.696            |                    |         |
| 7,300.00                                                                                                  | 7,202.57            | 7,156.58            | 7,137.51            | 26.85           | 25.54       | 13.62                 | 1,849.35                          | -202.44    | 903.39               | 851.21                | 52.18                   | 17.314            |                    |         |
| 7,400.00                                                                                                  | 7,301.06            | 7,256.21            | 7,236.68            | 27.23           | 25.91       | 13.54                 | 1,857.71                          | -207.18    | 894.86               | 841.94                | 52.92                   | 16.910            |                    |         |
| 7,500.00                                                                                                  | 7,399.97            | 7,356.02            | 7,336.02            | 27.61           | 26.27       | 13.42                 | 1,866.08                          | -211.94    | 888.86               | 835.20                | 53.65                   | 16.567            |                    |         |
| 7,600.00                                                                                                  | 7,499.23            | 7,455.93            | 7,435.47            | 27.98           | 26.63       | 13.28                 | 1,874.46                          | -216.70    | 885.41               | 831.02                | 54.38                   | 16.280            |                    |         |
| 7,685.06                                                                                                  | 7,583.89            | 7,540.96            | 7,520.10            | 28.29           | 26.94       | 13.13                 | 1,881.59                          | -220.75    | 884.48               | 829.48                | 55.00                   | 16.081 CC         |                    |         |
| 7,700.00                                                                                                  | 7,598.77            | 7,555.89            | 7,534.96            | 28.34           | 27.00       | 13.10                 | 1,882.85                          | -221.46    | 884.51               | 829.40                | 55.11                   | 16.050            |                    |         |
| 7,800.00                                                                                                  | 7,698.53            | 7,664.94            | 7,643.52            | 28.70           | 27.39       | 12.89                 | 1,891.76                          | -226.52    | 885.99               | 830.13                | 55.86                   | 15.861            |                    |         |
| 7,900.00                                                                                                  | 7,798.44            | 7,790.19            | 7,768.48            | 29.05           | 27.85       | 12.70                 | 1,899.20                          | -230.75    | 887.76               | 831.14                | 56.62                   | 15.679            |                    |         |
| 8,000.00                                                                                                  | 7,898.42            | 7,915.57            | 7,893.77            | 29.39           | 28.30       | 12.59                 | 1,903.08                          | -232.95    | 889.24               | 831.89                | 57.34                   | 15.508            |                    |         |
| 8,013.58                                                                                                  | 7,912.00            | 7,932.60            | 7,910.80            | 29.43           | 28.36       | -0.20                 | 1,903.33                          | -233.10    | 889.41               | 831.98                | 57.43                   | 15.486            |                    |         |
| 8,100.00                                                                                                  | 7,998.42            | 8,030.42            | 8,008.62            | 29.73           | 28.70       | -0.21                 | 1,903.69                          | -233.30    | 889.70               | 831.67                | 58.03                   | 15.332            |                    |         |
| 8,200.00                                                                                                  | 8,098.42            | 8,130.42            | 8,108.62            | 30.07           | 29.06       | -0.21                 | 1,903.69                          | -233.30    | 889.70               | 830.97                | 58.73                   | 15.150            |                    |         |
| 8,300.00                                                                                                  | 8,198.42            | 8,230.42            | 8,208.62            | 30.41           | 29.41       | -0.21                 | 1,903.69                          | -233.30    | 889.70               | 830.27                | 59.42                   | 14.972            |                    |         |
| 8,363.62                                                                                                  | 8,262.04            | 8,294.04            | 8,272.24            | 30.62           | 29.64       | -0.21                 | 1,903.69                          | -233.30    | 889.70               | 829.83                | 59.87                   | 14.861            |                    |         |
| 8,400.00                                                                                                  | 8,298.40            | 8,330.40            | 8,308.60            | 30.75           | 29.77       | -89.95                | 1,903.69                          | -233.30    | 889.70               | 829.58                | 60.12                   | 14.799            |                    |         |
| 8,411.53                                                                                                  | 8,309.89            | 8,341.89            | 8,320.09            | 30.78           | 29.81       | -90.00                | 1,903.69                          | -233.30    | 889.70               | 829.50                | 60.20                   | 14.780            |                    |         |
| 8,450.00                                                                                                  | 8,348.10            | 8,380.35            | 8,358.51            | 30.91           | 29.94       | -90.19                | 1,903.70                          | -231.80    | 889.70               | 829.25                | 60.45                   | 14.719            |                    |         |
| 8,500.00                                                                                                  | 8,397.14            | 8,430.63            | 8,408.44            | 31.07           | 30.10       | -90.44                | 1,903.74                          | -225.96    | 889.72               | 828.95                | 60.77                   | 14.641            |                    |         |
| 8,550.00                                                                                                  | 8,445.15            | 8,481.26            | 8,458.00            | 31.23           | 30.27       | -90.69                | 1,903.80                          | -215.69    | 889.76               | 828.68                | 61.09                   | 14.566            |                    |         |
| 8,600.00                                                                                                  | 8,491.77            | 8,532.25            | 8,506.79            | 31.38           | 30.44       | -90.93                | 1,903.89                          | -200.97    | 889.82               | 828.42                | 61.40                   | 14.493            |                    |         |
| 8,650.00                                                                                                  | 8,536.65            | 8,583.58            | 8,554.40            | 31.52           | 30.60       | -91.17                | 1,904.00                          | -181.82    | 889.88               | 828.18                | 61.70                   | 14.423            |                    |         |
| 8,700.00                                                                                                  | 8,579.43            | 8,635.26            | 8,600.41            | 31.66           | 30.77       | -91.40                | 1,904.14                          | -158.32    | 889.96               | 827.97                | 62.00                   | 14.355            |                    |         |
| 8,750.00                                                                                                  | 8,619.80            | 8,687.28            | 8,644.39            | 31.80           | 30.93       | -91.62                | 1,904.31                          | -130.58    | 890.05               | 827.76                | 62.29                   | 14.288            |                    |         |
| 8,800.00                                                                                                  | 8,657.44            | 8,739.63            | 8,685.93            | 31.93           | 31.09       | -91.83                | 1,904.50                          | -98.75     | 890.15               | 827.56                | 62.59                   | 14.222            |                    |         |
| 8,850.00                                                                                                  | 8,692.08            | 8,792.29            | 8,724.61            | 32.06           | 31.26       | -92.02                | 1,904.71                          | -63.04     | 890.25               | 827.36                | 62.89                   | 14.155            |                    |         |
| 8,900.00                                                                                                  | 8,723.44            | 8,845.24            | 8,760.04            | 32.19           | 31.43       | -92.20                | 1,904.94                          | -23.71     | 890.35               | 827.15                | 63.21                   | 14.086            |                    |         |
| 8,950.00                                                                                                  | 8,751.29            | 8,898.47            | 8,791.84            | 32.34           | 31.62       | -92.35                | 1,905.20                          | 18.95      | 890.45               | 826.91                | 63.54                   | 14.013            |                    |         |
| 9,000.00                                                                                                  | 8,775.42            | 8,951.95            | 8,819.66            | 32.50           | 31.81       | -92.50                | 1,905.47                          | 64.60      | 890.55               | 826.64                | 63.91                   | 13.935            |                    |         |
| 9,050.00                                                                                                  | 8,795.64            | 9,005.64            | 8,843.19            | 32.67           | 32.03       | -92.62                | 1,905.76                          | 112.83     | 890.63               | 826.32                | 64.31                   | 13.849            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 332H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|-----------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1                                                                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                                                                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                                                                                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,100.00                                                                                                  | 8,811.80            | 9,059.51            | 8,862.16            | 32.87           | 32.27       | -92.72                | 1,906.06                          | 163.24     | 890.70               | 825.95                | 64.75                   | 13.756            |                    |         |
| 9,150.00                                                                                                  | 8,823.77            | 9,113.54            | 8,876.35            | 33.10           | 32.53       | -92.79                | 1,906.37                          | 215.35     | 890.76               | 825.52                | 65.24                   | 13.654            |                    |         |
| 9,200.00                                                                                                  | 8,831.47            | 9,167.68            | 8,885.59            | 33.34           | 32.80       | -92.85                | 1,906.69                          | 268.67     | 890.80               | 825.04                | 65.76                   | 13.546            |                    |         |
| 9,250.00                                                                                                  | 8,834.84            | 9,221.89            | 8,889.75            | 33.60           | 33.10       | -92.88                | 1,907.01                          | 322.70     | 890.83               | 824.50                | 66.33                   | 13.431            |                    |         |
| 9,263.62                                                                                                  | 8,835.00            | 9,236.66            | 8,889.99            | 33.67           | 33.18       | -92.88                | 1,907.10                          | 337.47     | 890.83               | 824.34                | 66.49                   | 13.399            |                    |         |
| 9,300.00                                                                                                  | 8,835.00            | 9,273.21            | 8,890.00            | 33.88           | 33.40       | -92.88                | 1,907.32                          | 374.02     | 890.83               | 823.91                | 66.92                   | 13.312            |                    |         |
| 9,400.00                                                                                                  | 8,835.00            | 9,373.21            | 8,890.00            | 34.53           | 34.08       | -92.88                | 1,907.91                          | 474.02     | 890.83               | 822.58                | 68.25                   | 13.052            |                    |         |
| 9,500.00                                                                                                  | 8,835.00            | 9,473.21            | 8,890.00            | 35.30           | 34.85       | -92.88                | 1,908.51                          | 574.02     | 890.83               | 821.04                | 69.79                   | 12.764            |                    |         |
| 9,600.00                                                                                                  | 8,835.00            | 9,573.21            | 8,890.00            | 36.17           | 35.73       | -92.88                | 1,909.11                          | 674.01     | 890.83               | 819.29                | 71.54                   | 12.453            |                    |         |
| 9,700.00                                                                                                  | 8,835.00            | 9,673.21            | 8,890.00            | 37.13           | 36.70       | -92.88                | 1,909.71                          | 774.01     | 890.83               | 817.37                | 73.47                   | 12.125            |                    |         |
| 9,800.00                                                                                                  | 8,835.00            | 9,773.21            | 8,890.00            | 38.18           | 37.76       | -92.88                | 1,910.30                          | 874.01     | 890.83               | 815.26                | 75.57                   | 11.788            |                    |         |
| 9,900.00                                                                                                  | 8,835.00            | 9,873.21            | 8,890.00            | 39.31           | 38.90       | -92.88                | 1,910.90                          | 974.01     | 890.84               | 813.01                | 77.83                   | 11.446            |                    |         |
| 10,000.00                                                                                                 | 8,835.00            | 9,973.21            | 8,890.00            | 40.51           | 40.10       | -92.88                | 1,911.50                          | 1,074.01   | 890.84               | 810.60                | 80.23                   | 11.103            |                    |         |
| 10,100.00                                                                                                 | 8,835.00            | 10,073.21           | 8,890.00            | 41.78           | 41.38       | -92.88                | 1,912.09                          | 1,174.00   | 890.84               | 808.07                | 82.77                   | 10.763            |                    |         |
| 10,200.00                                                                                                 | 8,835.00            | 10,173.21           | 8,890.00            | 43.10           | 42.71       | -92.88                | 1,912.69                          | 1,274.00   | 890.84               | 805.41                | 85.43                   | 10.428            |                    |         |
| 10,300.00                                                                                                 | 8,835.00            | 10,273.21           | 8,890.00            | 44.49           | 44.10       | -92.88                | 1,913.29                          | 1,374.00   | 890.84               | 802.64                | 88.19                   | 10.101            |                    |         |
| 10,400.00                                                                                                 | 8,835.00            | 10,373.21           | 8,890.00            | 45.92           | 45.54       | -92.88                | 1,913.88                          | 1,474.00   | 890.84               | 799.78                | 91.06                   | 9.783             |                    |         |
| 10,500.00                                                                                                 | 8,835.00            | 10,473.21           | 8,890.00            | 47.39           | 47.02       | -92.88                | 1,914.48                          | 1,574.00   | 890.84               | 796.82                | 94.02                   | 9.475             |                    |         |
| 10,600.00                                                                                                 | 8,835.00            | 10,573.21           | 8,890.00            | 48.91           | 48.55       | -92.88                | 1,915.08                          | 1,674.00   | 890.84               | 793.79                | 97.06                   | 9.179             |                    |         |
| 10,700.00                                                                                                 | 8,835.00            | 10,673.21           | 8,890.00            | 50.47           | 50.11       | -92.88                | 1,915.67                          | 1,773.99   | 890.84               | 790.67                | 100.17                  | 8.893             |                    |         |
| 10,800.00                                                                                                 | 8,835.00            | 10,773.21           | 8,890.00            | 52.06           | 51.71       | -92.88                | 1,916.27                          | 1,873.99   | 890.84               | 787.49                | 103.35                  | 8.620             |                    |         |
| 10,900.00                                                                                                 | 8,835.00            | 10,873.21           | 8,890.00            | 53.68           | 53.33       | -92.88                | 1,916.87                          | 1,973.99   | 890.84               | 784.25                | 106.59                  | 8.357             |                    |         |
| 11,000.00                                                                                                 | 8,835.00            | 10,973.21           | 8,890.00            | 55.32           | 54.99       | -92.88                | 1,917.46                          | 2,073.99   | 890.85               | 780.95                | 109.89                  | 8.107             |                    |         |
| 11,100.00                                                                                                 | 8,835.00            | 11,073.21           | 8,890.00            | 57.00           | 56.67       | -92.88                | 1,918.06                          | 2,173.99   | 890.85               | 777.60                | 113.24                  | 7.867             |                    |         |
| 11,200.00                                                                                                 | 8,835.00            | 11,173.21           | 8,890.00            | 58.70           | 58.37       | -92.88                | 1,918.66                          | 2,273.98   | 890.85               | 774.21                | 116.64                  | 7.638             |                    |         |
| 11,300.00                                                                                                 | 8,835.00            | 11,273.21           | 8,890.00            | 60.41           | 60.10       | -92.88                | 1,919.25                          | 2,373.98   | 890.85               | 770.77                | 120.08                  | 7.419             |                    |         |
| 11,400.00                                                                                                 | 8,835.00            | 11,373.21           | 8,890.00            | 62.15           | 61.84       | -92.88                | 1,919.85                          | 2,473.98   | 890.85               | 767.29                | 123.56                  | 7.210             |                    |         |
| 11,500.00                                                                                                 | 8,835.00            | 11,473.21           | 8,890.00            | 63.91           | 63.60       | -92.88                | 1,920.45                          | 2,573.98   | 890.85               | 763.77                | 127.08                  | 7.010             |                    |         |
| 11,600.00                                                                                                 | 8,835.00            | 11,573.21           | 8,890.00            | 65.69           | 65.38       | -92.88                | 1,921.04                          | 2,673.98   | 890.85               | 760.22                | 130.63                  | 6.820             |                    |         |
| 11,700.00                                                                                                 | 8,835.00            | 11,673.21           | 8,890.00            | 67.47           | 67.18       | -92.88                | 1,921.64                          | 2,773.98   | 890.85               | 756.64                | 134.21                  | 6.638             |                    |         |
| 11,800.00                                                                                                 | 8,835.00            | 11,773.21           | 8,890.00            | 69.28           | 68.99       | -92.88                | 1,922.24                          | 2,873.97   | 890.85               | 753.04                | 137.82                  | 6.464             |                    |         |
| 11,900.00                                                                                                 | 8,835.00            | 11,873.21           | 8,890.00            | 71.09           | 70.81       | -92.88                | 1,922.84                          | 2,973.97   | 890.85               | 749.40                | 141.45                  | 6.298             |                    |         |
| 12,000.00                                                                                                 | 8,835.00            | 11,973.21           | 8,890.00            | 72.92           | 72.64       | -92.88                | 1,923.43                          | 3,073.97   | 890.85               | 745.74                | 145.11                  | 6.139             |                    |         |
| 12,100.00                                                                                                 | 8,835.00            | 12,073.21           | 8,890.00            | 74.76           | 74.48       | -92.88                | 1,924.03                          | 3,173.97   | 890.86               | 742.06                | 148.79                  | 5.987             |                    |         |
| 12,200.00                                                                                                 | 8,835.00            | 12,173.21           | 8,890.00            | 76.61           | 76.34       | -92.88                | 1,924.63                          | 3,273.97   | 890.86               | 738.36                | 152.49                  | 5.842             |                    |         |
| 12,300.00                                                                                                 | 8,835.00            | 12,273.21           | 8,890.00            | 78.47           | 78.20       | -92.88                | 1,925.22                          | 3,373.97   | 890.86               | 734.64                | 156.21                  | 5.703             |                    |         |
| 12,400.00                                                                                                 | 8,835.00            | 12,373.21           | 8,890.00            | 80.34           | 80.08       | -92.88                | 1,925.82                          | 3,473.96   | 890.86               | 730.90                | 159.95                  | 5.569             |                    |         |
| 12,500.00                                                                                                 | 8,835.00            | 12,473.21           | 8,890.00            | 82.22           | 81.96       | -92.88                | 1,926.42                          | 3,573.96   | 890.86               | 727.15                | 163.71                  | 5.442             |                    |         |
| 12,600.00                                                                                                 | 8,835.00            | 12,573.21           | 8,890.00            | 84.11           | 83.85       | -92.88                | 1,927.01                          | 3,673.96   | 890.86               | 723.38                | 167.48                  | 5.319             |                    |         |
| 12,700.00                                                                                                 | 8,835.00            | 12,673.21           | 8,890.00            | 86.00           | 85.74       | -92.88                | 1,927.61                          | 3,773.96   | 890.86               | 719.60                | 171.27                  | 5.202             |                    |         |
| 12,800.00                                                                                                 | 8,835.00            | 12,773.21           | 8,890.00            | 87.90           | 87.65       | -92.88                | 1,928.21                          | 3,873.96   | 890.86               | 715.80                | 175.06                  | 5.089             |                    |         |
| 12,900.00                                                                                                 | 8,835.00            | 12,873.21           | 8,890.00            | 89.81           | 89.56       | -92.88                | 1,928.80                          | 3,973.95   | 890.86               | 711.99                | 178.88                  | 4.980 Alert       |                    |         |
| 13,000.00                                                                                                 | 8,835.00            | 12,973.21           | 8,890.00            | 91.72           | 91.47       | -92.88                | 1,929.40                          | 4,073.95   | 890.86               | 708.16                | 182.70                  | 4.876 Alert       |                    |         |
| 13,100.00                                                                                                 | 8,835.00            | 13,073.21           | 8,890.00            | 93.64           | 93.39       | -92.88                | 1,930.00                          | 4,173.95   | 890.86               | 704.33                | 186.54                  | 4.776 Alert       |                    |         |
| 13,200.00                                                                                                 | 8,835.00            | 13,173.21           | 8,890.00            | 95.56           | 95.32       | -92.88                | 1,930.59                          | 4,273.95   | 890.86               | 700.48                | 190.38                  | 4.679 Alert       |                    |         |
| 13,300.00                                                                                                 | 8,835.00            | 13,273.21           | 8,890.00            | 97.49           | 97.25       | -92.88                | 1,931.19                          | 4,373.95   | 890.87               | 696.63                | 194.24                  | 4.587 Alert       |                    |         |
| 13,400.00                                                                                                 | 8,835.00            | 13,373.21           | 8,890.00            | 99.42           | 99.19       | -92.88                | 1,931.79                          | 4,473.95   | 890.87               | 692.77                | 198.10                  | 4.497 Alert       |                    |         |
| 13,500.00                                                                                                 | 8,835.00            | 13,473.21           | 8,890.00            | 101.36          | 101.13      | -92.88                | 1,932.38                          | 4,573.94   | 890.87               | 688.89                | 201.97                  | 4.411 Alert       |                    |         |
| 13,600.00                                                                                                 | 8,835.00            | 13,573.21           | 8,890.00            | 103.30          | 103.07      | -92.88                | 1,932.98                          | 4,673.94   | 890.87               | 685.01                | 205.86                  | 4.328 Alert       |                    |         |
| 13,700.00                                                                                                 | 8,835.00            | 13,673.21           | 8,890.00            | 105.25          | 105.02      | -92.88                | 1,933.58                          | 4,773.94   | 890.87               | 681.12                | 209.75                  | 4.247 Alert       |                    |         |
| 13,800.00                                                                                                 | 8,835.00            | 13,773.21           | 8,890.00            | 107.20          | 106.97      | -92.88                | 1,934.17                          | 4,873.94   | 890.87               | 677.23                | 213.64                  | 4.170 Alert       |                    |         |
| 13,900.00                                                                                                 | 8,835.00            | 13,873.21           | 8,890.00            | 109.15          | 108.92      | -92.88                | 1,934.77                          | 4,973.94   | 890.87               | 673.32                | 217.55                  | 4.095 Alert       |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 332H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|-----------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1                                                                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                                                                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                                                                                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 14,000.00                                                                                                 | 8,835.00            | 13,973.21           | 8,890.00            | 111.10          | 110.88      | -92.88                | 1,935.37                          | 5,073.94   | 890.87               | 669.42                | 221.46                  | 4.023             | Alert              |         |
| 14,100.00                                                                                                 | 8,835.00            | 14,073.21           | 8,890.00            | 113.06          | 112.84      | -92.88                | 1,935.97                          | 5,173.93   | 890.87               | 665.50                | 225.37                  | 3.953             | Alert              |         |
| 14,200.00                                                                                                 | 8,835.00            | 14,173.21           | 8,890.00            | 115.03          | 114.81      | -92.88                | 1,936.56                          | 5,273.93   | 890.87               | 661.58                | 229.30                  | 3.885             | Alert              |         |
| 14,300.00                                                                                                 | 8,835.00            | 14,273.21           | 8,890.00            | 116.99          | 116.78      | -92.88                | 1,937.16                          | 5,373.93   | 890.87               | 657.65                | 233.23                  | 3.820             | Alert              |         |
| 14,400.00                                                                                                 | 8,835.00            | 14,373.21           | 8,890.00            | 118.96          | 118.75      | -92.88                | 1,937.76                          | 5,473.93   | 890.88               | 653.72                | 237.16                  | 3.756             | Alert              |         |
| 14,500.00                                                                                                 | 8,835.00            | 14,473.21           | 8,890.00            | 120.93          | 120.72      | -92.88                | 1,938.35                          | 5,573.93   | 890.88               | 649.78                | 241.10                  | 3.695             | Alert              |         |
| 14,600.00                                                                                                 | 8,835.00            | 14,573.21           | 8,890.00            | 122.90          | 122.69      | -92.88                | 1,938.95                          | 5,673.92   | 890.88               | 645.84                | 245.04                  | 3.636             | Alert              |         |
| 14,700.00                                                                                                 | 8,835.00            | 14,673.21           | 8,890.00            | 124.88          | 124.67      | -92.88                | 1,939.55                          | 5,773.92   | 890.88               | 641.89                | 248.99                  | 3.578             | Alert              |         |
| 14,800.00                                                                                                 | 8,835.00            | 14,773.21           | 8,890.00            | 126.86          | 126.65      | -92.88                | 1,940.14                          | 5,873.92   | 890.88               | 637.94                | 252.94                  | 3.522             | Alert              |         |
| 14,900.00                                                                                                 | 8,835.00            | 14,873.21           | 8,890.00            | 128.84          | 128.63      | -92.88                | 1,940.74                          | 5,973.92   | 890.88               | 633.98                | 256.90                  | 3.468             | Alert              |         |
| 15,000.00                                                                                                 | 8,835.00            | 14,973.21           | 8,890.00            | 130.82          | 130.62      | -92.88                | 1,941.34                          | 6,073.92   | 890.88               | 630.02                | 260.86                  | 3.415             | Alert              |         |
| 15,100.00                                                                                                 | 8,835.00            | 15,073.21           | 8,890.00            | 132.80          | 132.60      | -92.88                | 1,941.93                          | 6,173.92   | 890.88               | 626.06                | 264.83                  | 3.364             | Alert              |         |
| 15,200.00                                                                                                 | 8,835.00            | 15,173.21           | 8,890.00            | 134.79          | 134.59      | -92.88                | 1,942.53                          | 6,273.91   | 890.88               | 622.09                | 268.80                  | 3.314             | Alert              |         |
| 15,300.00                                                                                                 | 8,835.00            | 15,273.21           | 8,890.00            | 136.78          | 136.58      | -92.88                | 1,943.13                          | 6,373.91   | 890.88               | 618.12                | 272.77                  | 3.266             | Alert              |         |
| 15,400.00                                                                                                 | 8,835.00            | 15,373.21           | 8,890.00            | 138.76          | 138.57      | -92.88                | 1,943.72                          | 6,473.91   | 890.88               | 614.14                | 276.74                  | 3.219             | Alert              |         |
| 15,500.00                                                                                                 | 8,835.00            | 15,473.21           | 8,890.00            | 140.76          | 140.56      | -92.88                | 1,944.32                          | 6,573.91   | 890.89               | 610.16                | 280.72                  | 3.174             | Alert              |         |
| 15,600.00                                                                                                 | 8,835.00            | 15,573.21           | 8,890.00            | 142.75          | 142.55      | -92.88                | 1,944.92                          | 6,673.91   | 890.89               | 606.18                | 284.70                  | 3.129             | Alert              |         |
| 15,700.00                                                                                                 | 8,835.00            | 15,673.21           | 8,890.00            | 144.74          | 144.55      | -92.88                | 1,945.51                          | 6,773.90   | 890.89               | 602.20                | 288.69                  | 3.086             | Alert              |         |
| 15,800.00                                                                                                 | 8,835.00            | 15,773.21           | 8,890.00            | 146.74          | 146.55      | -92.88                | 1,946.11                          | 6,873.90   | 890.89               | 598.21                | 292.68                  | 3.044             | Alert              |         |
| 15,900.00                                                                                                 | 8,835.00            | 15,873.21           | 8,890.00            | 148.73          | 148.54      | -92.88                | 1,946.71                          | 6,973.90   | 890.89               | 594.22                | 296.67                  | 3.003             | Alert              |         |
| 16,000.00                                                                                                 | 8,835.00            | 15,973.21           | 8,890.00            | 150.73          | 150.54      | -92.88                | 1,947.31                          | 7,073.90   | 890.89               | 590.23                | 300.66                  | 2.963             | Alert              |         |
| 16,100.00                                                                                                 | 8,835.00            | 16,073.21           | 8,890.00            | 152.73          | 152.54      | -92.88                | 1,947.90                          | 7,173.90   | 890.89               | 586.24                | 304.65                  | 2.924             | Alert              |         |
| 16,200.00                                                                                                 | 8,835.00            | 16,173.21           | 8,890.00            | 154.73          | 154.55      | -92.88                | 1,948.50                          | 7,273.90   | 890.89               | 582.24                | 308.65                  | 2.886             | Alert              |         |
| 16,300.00                                                                                                 | 8,835.00            | 16,273.21           | 8,890.00            | 156.73          | 156.55      | -92.88                | 1,949.10                          | 7,373.89   | 890.89               | 578.24                | 312.65                  | 2.849             | Alert              |         |
| 16,400.00                                                                                                 | 8,835.00            | 16,373.21           | 8,890.00            | 158.74          | 158.55      | -92.88                | 1,949.69                          | 7,473.89   | 890.89               | 574.24                | 316.66                  | 2.813             | Alert              |         |
| 16,500.00                                                                                                 | 8,835.00            | 16,473.21           | 8,890.00            | 160.74          | 160.56      | -92.88                | 1,950.29                          | 7,573.89   | 890.89               | 570.24                | 320.66                  | 2.778             | Alert              |         |
| 16,600.00                                                                                                 | 8,835.00            | 16,573.21           | 8,890.00            | 162.74          | 162.56      | -92.88                | 1,950.89                          | 7,673.89   | 890.90               | 566.23                | 324.67                  | 2.744             | Alert              |         |
| 16,700.00                                                                                                 | 8,835.00            | 16,673.21           | 8,890.00            | 164.75          | 164.57      | -92.88                | 1,951.48                          | 7,773.89   | 890.90               | 562.22                | 328.68                  | 2.711             | Alert              |         |
| 16,800.00                                                                                                 | 8,835.00            | 16,773.21           | 8,890.00            | 166.76          | 166.58      | -92.88                | 1,952.08                          | 7,873.89   | 890.90               | 558.21                | 332.69                  | 2.678             | Alert              |         |
| 16,900.00                                                                                                 | 8,835.00            | 16,873.21           | 8,890.00            | 168.77          | 168.59      | -92.88                | 1,952.68                          | 7,973.88   | 890.90               | 554.20                | 336.70                  | 2.646             | Alert              |         |
| 17,000.00                                                                                                 | 8,835.00            | 16,973.21           | 8,890.00            | 170.77          | 170.60      | -92.88                | 1,953.27                          | 8,073.88   | 890.90               | 550.19                | 340.71                  | 2.615             | Alert              |         |
| 17,100.00                                                                                                 | 8,835.00            | 17,073.21           | 8,890.00            | 172.78          | 172.61      | -92.88                | 1,953.87                          | 8,173.88   | 890.90               | 546.17                | 344.73                  | 2.584             | Alert              |         |
| 17,200.00                                                                                                 | 8,835.00            | 17,173.21           | 8,890.00            | 174.79          | 174.62      | -92.88                | 1,954.47                          | 8,273.88   | 890.90               | 542.16                | 348.75                  | 2.555             | Alert              |         |
| 17,300.00                                                                                                 | 8,835.00            | 17,273.21           | 8,890.00            | 176.81          | 176.63      | -92.88                | 1,955.06                          | 8,373.88   | 890.90               | 538.14                | 352.76                  | 2.525             | Alert              |         |
| 17,400.00                                                                                                 | 8,835.00            | 17,373.21           | 8,890.00            | 178.82          | 178.65      | -92.88                | 1,955.66                          | 8,473.87   | 890.90               | 534.12                | 356.79                  | 2.497             | Minor Risk         |         |
| 17,500.00                                                                                                 | 8,835.00            | 17,473.21           | 8,890.00            | 180.83          | 180.66      | -92.88                | 1,956.26                          | 8,573.87   | 890.90               | 530.10                | 360.81                  | 2.469             | Minor Risk         |         |
| 17,600.00                                                                                                 | 8,835.00            | 17,573.21           | 8,890.00            | 182.84          | 182.67      | -92.88                | 1,956.85                          | 8,673.87   | 890.90               | 526.07                | 364.83                  | 2.442             | Minor Risk         |         |
| 17,700.00                                                                                                 | 8,835.00            | 17,673.21           | 8,890.00            | 184.86          | 184.69      | -92.88                | 1,957.45                          | 8,773.87   | 890.91               | 522.05                | 368.86                  | 2.415             | Minor Risk         |         |
| 17,800.00                                                                                                 | 8,835.00            | 17,773.21           | 8,890.00            | 186.87          | 186.71      | -92.88                | 1,958.05                          | 8,873.87   | 890.91               | 518.02                | 372.88                  | 2.389             | Minor Risk         |         |
| 17,900.00                                                                                                 | 8,835.00            | 17,873.21           | 8,890.00            | 188.89          | 188.72      | -92.88                | 1,958.64                          | 8,973.87   | 890.91               | 514.00                | 376.91                  | 2.364             | Minor Risk         |         |
| 18,000.00                                                                                                 | 8,835.00            | 17,973.21           | 8,890.00            | 190.91          | 190.74      | -92.88                | 1,959.24                          | 9,073.86   | 890.91               | 509.97                | 380.94                  | 2.339             | Minor Risk         |         |
| 18,100.00                                                                                                 | 8,835.00            | 18,073.21           | 8,890.00            | 192.92          | 192.76      | -92.88                | 1,959.84                          | 9,173.86   | 890.91               | 505.94                | 384.97                  | 2.314             | Minor Risk         |         |
| 18,200.00                                                                                                 | 8,835.00            | 18,173.21           | 8,890.00            | 194.94          | 194.78      | -92.88                | 1,960.44                          | 9,273.86   | 890.91               | 501.91                | 389.00                  | 2.290             | Minor Risk         |         |
| 18,300.00                                                                                                 | 8,835.00            | 18,273.21           | 8,890.00            | 196.96          | 196.80      | -92.88                | 1,961.03                          | 9,373.86   | 890.91               | 497.88                | 393.03                  | 2.267             | Minor Risk         |         |
| 18,400.00                                                                                                 | 8,835.00            | 18,373.21           | 8,890.00            | 198.98          | 198.82      | -92.88                | 1,961.63                          | 9,473.86   | 890.91               | 493.84                | 397.07                  | 2.244             | Minor Risk         |         |
| 18,500.00                                                                                                 | 8,835.00            | 18,473.21           | 8,890.00            | 201.00          | 200.84      | -92.88                | 1,962.23                          | 9,573.86   | 890.91               | 489.81                | 401.10                  | 2.221             | Minor Risk         |         |
| 18,600.00                                                                                                 | 8,835.00            | 18,573.21           | 8,890.00            | 203.02          | 202.86      | -92.88                | 1,962.82                          | 9,673.85   | 890.91               | 485.78                | 405.14                  | 2.199             | Minor Risk         |         |
| 18,700.00                                                                                                 | 8,835.00            | 18,673.21           | 8,890.00            | 205.04          | 204.88      | -92.88                | 1,963.42                          | 9,773.85   | 890.91               | 481.74                | 409.18                  | 2.177             | Minor Risk         |         |
| 18,800.00                                                                                                 | 8,835.00            | 18,773.21           | 8,890.00            | 207.06          | 206.90      | -92.88                | 1,964.02                          | 9,873.85   | 890.92               | 477.70                | 413.21                  | 2.156             | Minor Risk         |         |
| 18,900.00                                                                                                 | 8,835.00            | 18,873.21           | 8,890.00            | 209.08          | 208.92      | -92.88                | 1,964.61                          | 9,973.85   | 890.92               | 473.66                | 417.25                  | 2.135             | Minor Risk         |         |
| 19,000.00                                                                                                 | 8,835.00            | 18,973.21           | 8,890.00            | 211.10          | 210.94      | -92.88                | 1,965.21                          | 10,073.85  | 890.92               | 469.63                | 421.29                  | 2.115             | Minor Risk         |         |
| 19,100.00                                                                                                 | 8,835.00            | 19,073.21           | 8,890.00            | 213.12          | 212.97      | -92.88                | 1,965.81                          | 10,173.84  | 890.92               | 465.59                | 425.33                  | 2.095             | Minor Risk         |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 332H - Wellbore #1 - Permit Plan 1 |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 0.00 ft            |
|-----------------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|--------------------|
| Survey Program: 0-MWD+IFR1                                                                                |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 0.50 ft            |
| Reference                                                                                                 |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                           | Warning            |
| Measured Depth<br>(ft)                                                                                    | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |                    |
| 19,200.00                                                                                                 | 8,835.00               | 19,173.21              | 8,890.00               | 215.15            | 214.99         | -92.88                      | 1,966.40                                | 10,273.84     | 890.92                     | 461.55                      | 429.37                        | 2.075                     | Minor Risk         |
| 19,308.27                                                                                                 | 8,835.00               | 19,281.48              | 8,890.00               | 217.34            | 217.18         | -92.88                      | 1,967.05                                | 10,382.11     | 890.92                     | 457.17                      | 433.75                        | 2.054                     | Minor Risk, ES, SF |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Site Error:       | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Well Error:       | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                          |         |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor        | Warning |
| 0.00                       | 0.00                | 0.30                | -0.30               | 0.50            | 0.50        | 179.89                | -29.97                            | 0.06       | 29.97                |                       |                         |                          |         |
| 100.00                     | 100.00              | 100.30              | 99.70               | 0.52            | 0.52        | 179.89                | -29.97                            | 0.06       | 29.97                | 28.93                 | 1.04                    | 28.935                   |         |
| 200.00                     | 200.00              | 200.30              | 199.70              | 0.70            | 0.70        | 179.89                | -29.97                            | 0.06       | 29.97                | 28.57                 | 1.40                    | 21.332                   |         |
| 300.00                     | 300.00              | 300.30              | 299.70              | 0.99            | 0.99        | 179.89                | -29.97                            | 0.06       | 29.97                | 27.99                 | 1.98                    | 15.170                   |         |
| 400.00                     | 400.00              | 400.30              | 399.70              | 1.31            | 1.31        | 179.89                | -29.97                            | 0.06       | 29.97                | 27.35                 | 2.62                    | 11.443                   |         |
| 500.00                     | 500.00              | 500.30              | 499.70              | 1.65            | 1.65        | 179.89                | -29.97                            | 0.06       | 29.97                | 26.68                 | 3.29                    | 9.101                    |         |
| 600.00                     | 600.00              | 600.30              | 599.70              | 1.99            | 1.99        | 179.89                | -29.97                            | 0.06       | 29.97                | 25.99                 | 3.98                    | 7.526                    |         |
| 700.00                     | 700.00              | 700.30              | 699.70              | 2.34            | 2.34        | 179.89                | -29.97                            | 0.06       | 29.97                | 25.29                 | 4.68                    | 6.404                    |         |
| 800.00                     | 800.00              | 800.30              | 799.70              | 2.69            | 2.69        | 179.89                | -29.97                            | 0.06       | 29.97                | 24.59                 | 5.38                    | 5.568                    |         |
| 900.00                     | 900.00              | 900.30              | 899.70              | 3.04            | 3.04        | 179.89                | -29.97                            | 0.06       | 29.97                | 23.88                 | 6.09                    | 4.923 Alert              |         |
| 1,000.00                   | 1,000.00            | 1,000.30            | 999.70              | 3.40            | 3.40        | 179.89                | -29.97                            | 0.06       | 29.97                | 23.17                 | 6.80                    | 4.410 Alert              |         |
| 1,100.00                   | 1,100.00            | 1,100.30            | 1,099.70            | 3.75            | 3.75        | 179.89                | -29.97                            | 0.06       | 29.97                | 22.46                 | 7.51                    | 3.993 Alert              |         |
| 1,200.00                   | 1,200.00            | 1,200.30            | 1,199.70            | 4.11            | 4.11        | 179.89                | -29.97                            | 0.06       | 29.97                | 21.75                 | 8.22                    | 3.647 Alert              |         |
| 1,300.00                   | 1,300.00            | 1,300.30            | 1,299.70            | 4.46            | 4.47        | 179.89                | -29.97                            | 0.06       | 29.97                | 21.04                 | 8.93                    | 3.356 Alert              |         |
| 1,400.00                   | 1,400.00            | 1,400.30            | 1,399.70            | 4.82            | 4.82        | 179.89                | -29.97                            | 0.06       | 29.97                | 20.33                 | 9.64                    | 3.108 Alert              |         |
| 1,500.00                   | 1,500.00            | 1,500.30            | 1,499.70            | 5.18            | 5.18        | 179.89                | -29.97                            | 0.06       | 29.97                | 19.61                 | 10.36                   | 2.894 Alert              |         |
| 1,600.00                   | 1,600.00            | 1,600.30            | 1,599.70            | 5.53            | 5.54        | 179.89                | -29.97                            | 0.06       | 29.97                | 18.90                 | 11.07                   | 2.707 Alert              |         |
| 1,700.00                   | 1,700.00            | 1,700.30            | 1,699.70            | 5.89            | 5.89        | 179.89                | -29.97                            | 0.06       | 29.97                | 18.19                 | 11.78                   | 2.543 Alert              |         |
| 1,800.00                   | 1,800.00            | 1,800.30            | 1,799.70            | 6.25            | 6.25        | 179.89                | -29.97                            | 0.06       | 29.97                | 17.47                 | 12.50                   | 2.398 Minor Risk         |         |
| 1,900.00                   | 1,900.00            | 1,900.30            | 1,899.70            | 6.61            | 6.61        | 179.89                | -29.97                            | 0.06       | 29.97                | 16.76                 | 13.21                   | 2.268 Minor Risk         |         |
| 2,000.00                   | 2,000.00            | 2,000.30            | 1,999.70            | 6.96            | 6.96        | 179.89                | -29.97                            | 0.06       | 29.97                | 16.04                 | 13.93                   | 2.152 Minor Risk, CC, ES |         |
| 2,100.00                   | 2,099.99            | 2,100.31            | 2,099.69            | 7.32            | 7.32        | -167.69               | -29.97                            | 0.06       | 30.82                | 16.18                 | 14.64                   | 2.105 Minor Risk         |         |
| 2,200.00                   | 2,199.96            | 2,200.34            | 2,199.66            | 7.68            | 7.68        | -168.64               | -29.97                            | 0.06       | 33.38                | 18.03                 | 15.36                   | 2.174 Minor Risk         |         |
| 2,300.00                   | 2,299.86            | 2,300.44            | 2,299.56            | 8.04            | 8.04        | -169.94               | -29.97                            | 0.06       | 37.67                | 21.60                 | 16.07                   | 2.344 Minor Risk         |         |
| 2,400.00                   | 2,399.68            | 2,400.62            | 2,399.38            | 8.39            | 8.40        | -171.33               | -29.97                            | 0.06       | 43.69                | 26.91                 | 16.79                   | 2.603 Alert              |         |
| 2,500.00                   | 2,499.37            | 2,500.93            | 2,499.07            | 8.75            | 8.76        | -172.64               | -29.97                            | 0.06       | 51.46                | 33.96                 | 17.51                   | 2.940 Alert              |         |
| 2,600.00                   | 2,598.90            | 2,601.40            | 2,598.60            | 9.11            | 9.11        | -173.78               | -29.97                            | 0.06       | 60.98                | 42.76                 | 18.22                   | 3.347 Alert              |         |
| 2,700.00                   | 2,698.26            | 2,702.04            | 2,697.96            | 9.46            | 9.48        | -174.74               | -29.97                            | 0.06       | 72.25                | 53.31                 | 18.94                   | 3.815 Alert              |         |
| 2,800.00                   | 2,797.40            | 2,802.90            | 2,797.10            | 9.82            | 9.84        | -175.54               | -29.97                            | 0.06       | 85.25                | 65.60                 | 19.66                   | 4.337 Alert              |         |
| 2,900.00                   | 2,896.30            | 2,904.00            | 2,896.00            | 10.18           | 10.20       | -176.19               | -29.97                            | 0.06       | 100.00               | 79.62                 | 20.38                   | 4.908 Alert              |         |
| 3,000.00                   | 2,994.93            | 3,005.37            | 2,994.63            | 10.54           | 10.56       | -176.72               | -29.97                            | 0.06       | 116.47               | 95.38                 | 21.10                   | 5.521                    |         |
| 3,100.00                   | 3,093.26            | 3,107.05            | 3,092.96            | 10.90           | 10.93       | -177.15               | -29.97                            | 0.06       | 134.67               | 112.85                | 21.82                   | 6.173                    |         |
| 3,195.07                   | 3,186.42            | 3,186.12            | 3,186.12            | 11.24           | 11.21       | -177.49               | -29.97                            | 0.06       | 153.56               | 131.12                | 22.44                   | 6.844                    |         |
| 3,200.00                   | 3,191.25            | 3,209.05            | 3,190.95            | 11.26           | 11.29       | -177.51               | -29.97                            | 0.06       | 154.58               | 132.04                | 22.54                   | 6.858                    |         |
| 3,300.00                   | 3,289.08            | 3,288.78            | 3,288.78            | 11.62           | 11.58       | -177.80               | -29.97                            | 0.06       | 175.27               | 152.09                | 23.18                   | 7.561                    |         |
| 3,400.00                   | 3,386.91            | 3,386.61            | 3,386.61            | 11.98           | 11.93       | -178.04               | -29.97                            | 0.06       | 195.97               | 172.08                | 23.89                   | 8.203                    |         |
| 3,500.00                   | 3,484.74            | 3,484.44            | 3,484.44            | 12.35           | 12.28       | -178.22               | -29.97                            | 0.06       | 216.66               | 192.07                | 24.60                   | 8.808                    |         |
| 3,600.00                   | 3,582.58            | 3,582.28            | 3,582.28            | 12.72           | 12.63       | -178.38               | -29.97                            | 0.06       | 237.36               | 212.05                | 25.31                   | 9.378                    |         |
| 3,700.00                   | 3,680.41            | 3,680.11            | 3,680.11            | 13.09           | 12.98       | -178.51               | -29.97                            | 0.06       | 258.06               | 232.04                | 26.02                   | 9.917                    |         |
| 3,800.00                   | 3,778.24            | 3,777.94            | 3,777.94            | 13.46           | 13.33       | -178.62               | -29.97                            | 0.06       | 278.76               | 252.03                | 26.73                   | 10.427                   |         |
| 3,900.00                   | 3,876.08            | 3,875.78            | 3,875.78            | 13.83           | 13.68       | -178.71               | -29.97                            | 0.06       | 299.46               | 272.02                | 27.45                   | 10.910                   |         |
| 4,000.00                   | 3,973.91            | 3,973.61            | 3,973.61            | 14.21           | 14.03       | -178.80               | -29.97                            | 0.06       | 320.17               | 292.00                | 28.16                   | 11.368                   |         |
| 4,100.00                   | 4,071.74            | 4,074.35            | 4,074.35            | 14.58           | 14.39       | -178.81               | -29.73                            | -0.36      | 340.56               | 311.67                | 28.89                   | 11.787                   |         |
| 4,200.00                   | 4,169.57            | 4,176.56            | 4,176.53            | 14.96           | 14.75       | -178.61               | -28.63                            | -2.31      | 359.86               | 330.23                | 29.63                   | 12.147                   |         |
| 4,300.00                   | 4,267.41            | 4,279.18            | 4,279.07            | 15.33           | 15.10       | -178.21               | -26.62                            | -5.86      | 378.01               | 347.66                | 30.36                   | 12.452                   |         |
| 4,400.00                   | 4,365.24            | 4,382.14            | 4,381.86            | 15.71           | 15.47       | -177.65               | -23.70                            | -11.03     | 395.05               | 363.95                | 31.09                   | 12.706                   |         |
| 4,500.00                   | 4,463.07            | 4,482.18            | 4,481.65            | 16.09           | 15.82       | -176.99               | -20.19                            | -17.25     | 411.25               | 379.43                | 31.82                   | 12.926                   |         |
| 4,600.00                   | 4,560.90            | 4,580.77            | 4,579.97            | 16.47           | 16.17       | -176.39               | -16.67                            | -23.46     | 427.44               | 394.90                | 32.53                   | 13.138                   |         |
| 4,700.00                   | 4,658.74            | 4,679.35            | 4,678.30            | 16.85           | 16.51       | -175.83               | -13.16                            | -29.67     | 443.67               | 410.42                | 33.26                   | 13.341                   |         |
| 4,800.00                   | 4,756.57            | 4,777.94            | 4,776.62            | 17.23           | 16.86       | -175.31               | -9.65                             | -35.88     | 459.94               | 425.97                | 33.98                   | 13.537                   |         |
| 4,900.00                   | 4,854.40            | 4,876.52            | 4,874.95            | 17.61           | 17.21       | -174.82               | -6.14                             | -42.10     | 476.25               | 441.55                | 34.70                   | 13.725                   |         |
| 5,000.00                   | 4,952.23            | 4,975.10            | 4,973.27            | 17.99           | 17.56       | -174.37               | -2.63                             | -48.31     | 492.59               | 457.16                | 35.42                   | 13.906                   |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                   | 5,050.07            | 5,073.69            | 5,071.60            | 18.37           | 17.91       | -173.94               | 0.88                              | -54.52     | 508.95               | 472.81                | 36.15                   | 14.080            |                    |         |
| 5,200.00                   | 5,147.90            | 5,172.27            | 5,169.92            | 18.75           | 18.26       | -173.55               | 4.39                              | -60.73     | 525.34               | 488.47                | 36.87                   | 14.248            |                    |         |
| 5,300.00                   | 5,245.73            | 5,270.86            | 5,268.25            | 19.14           | 18.61       | -173.17               | 7.90                              | -66.94     | 541.76               | 504.16                | 37.60                   | 14.410            |                    |         |
| 5,400.00                   | 5,343.56            | 5,369.44            | 5,366.57            | 19.52           | 18.96       | -172.82               | 11.41                             | -73.15     | 558.19               | 519.87                | 38.32                   | 14.565            |                    |         |
| 5,500.00                   | 5,441.40            | 5,468.02            | 5,464.90            | 19.90           | 19.31       | -172.49               | 14.92                             | -79.36     | 574.65               | 535.60                | 39.05                   | 14.716            |                    |         |
| 5,600.00                   | 5,539.23            | 5,566.61            | 5,563.22            | 20.29           | 19.66       | -172.18               | 18.43                             | -85.57     | 591.12               | 551.34                | 39.78                   | 14.861            |                    |         |
| 5,700.00                   | 5,637.06            | 5,665.19            | 5,661.55            | 20.67           | 20.01       | -171.88               | 21.94                             | -91.79     | 607.61               | 567.10                | 40.51                   | 15.001            |                    |         |
| 5,800.00                   | 5,734.90            | 5,763.77            | 5,759.87            | 21.05           | 20.36       | -171.60               | 25.45                             | -98.00     | 624.11               | 582.88                | 41.23                   | 15.136            |                    |         |
| 5,900.00                   | 5,832.73            | 5,862.36            | 5,858.20            | 21.44           | 20.71       | -171.33               | 28.96                             | -104.21    | 640.63               | 598.67                | 41.96                   | 15.266            |                    |         |
| 6,000.00                   | 5,930.56            | 5,960.94            | 5,956.53            | 21.83           | 21.06       | -171.08               | 32.47                             | -110.42    | 657.16               | 614.47                | 42.69                   | 15.393            |                    |         |
| 6,100.00                   | 6,028.39            | 6,059.53            | 6,054.85            | 22.21           | 21.42       | -170.84               | 35.99                             | -116.63    | 673.70               | 630.28                | 43.42                   | 15.515            |                    |         |
| 6,200.00                   | 6,126.23            | 6,158.11            | 6,153.18            | 22.60           | 21.77       | -170.61               | 39.50                             | -122.84    | 690.26               | 646.10                | 44.15                   | 15.633            |                    |         |
| 6,300.00                   | 6,224.06            | 6,256.69            | 6,251.50            | 22.98           | 22.12       | -170.39               | 43.01                             | -129.05    | 706.82               | 661.94                | 44.88                   | 15.747            |                    |         |
| 6,400.00                   | 6,321.89            | 6,355.28            | 6,349.83            | 23.37           | 22.47       | -170.18               | 46.52                             | -135.26    | 723.39               | 677.78                | 45.62                   | 15.858            |                    |         |
| 6,500.00                   | 6,419.72            | 6,453.86            | 6,448.15            | 23.76           | 22.83       | -169.99               | 50.03                             | -141.47    | 739.98               | 693.63                | 46.35                   | 15.966            |                    |         |
| 6,600.00                   | 6,517.56            | 6,552.44            | 6,546.48            | 24.14           | 23.18       | -169.79               | 53.54                             | -147.69    | 756.57               | 709.49                | 47.08                   | 16.070            |                    |         |
| 6,700.00                   | 6,615.39            | 6,651.03            | 6,644.80            | 24.53           | 23.53       | -169.61               | 57.05                             | -153.90    | 773.16               | 725.35                | 47.81                   | 16.171            |                    |         |
| 6,800.00                   | 6,713.22            | 6,749.61            | 6,743.13            | 24.92           | 23.89       | -169.44               | 60.56                             | -160.11    | 789.77               | 741.22                | 48.55                   | 16.269            |                    |         |
| 6,900.00                   | 6,811.05            | 6,848.20            | 6,841.45            | 25.30           | 24.24       | -169.27               | 64.07                             | -166.32    | 806.38               | 757.10                | 49.28                   | 16.364            |                    |         |
| 7,000.00                   | 6,908.89            | 6,946.78            | 6,939.78            | 25.69           | 24.59       | -169.11               | 67.58                             | -172.53    | 823.00               | 772.99                | 50.01                   | 16.456            |                    |         |
| 7,100.00                   | 7,006.72            | 7,045.36            | 7,038.10            | 26.08           | 24.95       | -168.96               | 71.09                             | -178.74    | 839.62               | 788.88                | 50.75                   | 16.546            |                    |         |
| 7,200.00                   | 7,104.55            | 7,143.95            | 7,136.43            | 26.47           | 25.30       | -168.81               | 74.60                             | -184.95    | 856.25               | 804.77                | 51.48                   | 16.633            |                    |         |
| 7,216.87                   | 7,121.05            | 7,160.58            | 7,153.01            | 26.53           | 25.36       | -168.78               | 75.19                             | -186.00    | 859.06               | 807.46                | 51.60                   | 16.647            |                    |         |
| 7,300.00                   | 7,202.57            | 7,242.67            | 7,234.89            | 26.85           | 25.65       | -168.69               | 78.12                             | -191.17    | 872.01               | 819.80                | 52.21                   | 16.701            |                    |         |
| 7,400.00                   | 7,301.06            | 7,341.74            | 7,333.71            | 27.23           | 26.01       | -168.55               | 81.65                             | -197.41    | 885.28               | 832.33                | 52.95                   | 16.720            |                    |         |
| 7,500.00                   | 7,399.97            | 7,441.11            | 7,432.81            | 27.61           | 26.37       | -168.37               | 85.18                             | -203.67    | 896.00               | 842.33                | 53.68                   | 16.693            |                    |         |
| 7,600.00                   | 7,499.23            | 7,540.70            | 7,532.14            | 27.98           | 26.73       | -168.16               | 88.73                             | -209.95    | 904.19               | 849.79                | 54.40                   | 16.621            |                    |         |
| 7,700.00                   | 7,598.77            | 7,640.45            | 7,631.63            | 28.34           | 27.08       | -167.90               | 92.28                             | -216.23    | 909.84               | 854.72                | 55.12                   | 16.505            |                    |         |
| 7,800.00                   | 7,698.53            | 7,738.08            | 7,729.00            | 28.70           | 27.44       | -167.62               | 95.74                             | -222.35    | 912.98               | 857.15                | 55.83                   | 16.353            |                    |         |
| 7,900.00                   | 7,798.44            | 7,827.37            | 7,818.16            | 29.05           | 27.76       | -167.41               | 98.19                             | -226.69    | 914.38               | 857.91                | 56.48                   | 16.190            |                    |         |
| 8,000.00                   | 7,898.42            | 7,916.77            | 7,907.50            | 29.39           | 28.07       | -167.27               | 99.62                             | -229.22    | 914.40               | 857.29                | 57.11                   | 16.010            |                    |         |
| 8,013.58                   | 7,912.00            | 7,928.91            | 7,919.64            | 29.43           | 28.12       | 179.96                | 99.74                             | -229.42    | 914.30               | 857.10                | 57.20                   | 15.985            |                    |         |
| 8,100.00                   | 7,998.42            | 8,007.39            | 7,998.12            | 29.73           | 28.40       | 180.00                | 100.03                            | -229.94    | 913.97               | 856.22                | 57.75                   | 15.827            |                    |         |
| 8,200.00                   | 8,098.42            | 8,107.39            | 8,098.12            | 30.07           | 28.75       | 180.00                | 100.03                            | -229.94    | 913.97               | 855.52                | 58.45                   | 15.638            |                    |         |
| 8,300.00                   | 8,198.42            | 8,207.39            | 8,198.12            | 30.41           | 29.11       | 180.00                | 100.03                            | -229.94    | 913.97               | 854.82                | 59.15                   | 15.453            |                    |         |
| 8,363.62                   | 8,262.04            | 8,271.01            | 8,261.74            | 30.62           | 29.33       | 180.00                | 100.03                            | -229.94    | 913.97               | 854.38                | 59.59                   | 15.338            |                    |         |
| 8,400.00                   | 8,298.40            | 8,307.37            | 8,298.10            | 30.75           | 29.46       | 90.41                 | 100.03                            | -229.94    | 913.98               | 854.14                | 59.84                   | 15.273            |                    |         |
| 8,450.00                   | 8,348.10            | 8,357.38            | 8,348.11            | 30.91           | 29.64       | 90.73                 | 100.03                            | -229.83    | 914.03               | 853.85                | 60.18                   | 15.188            |                    |         |
| 8,500.00                   | 8,397.14            | 8,408.72            | 8,399.33            | 31.07           | 29.81       | 91.14                 | 100.07                            | -226.54    | 914.12               | 853.60                | 60.52                   | 15.103            |                    |         |
| 8,550.00                   | 8,445.15            | 8,460.68            | 8,450.65            | 31.23           | 29.98       | 91.55                 | 100.16                            | -218.56    | 914.23               | 853.36                | 60.87                   | 15.019            |                    |         |
| 8,600.00                   | 8,491.77            | 8,513.27            | 8,501.64            | 31.38           | 30.16       | 91.94                 | 100.30                            | -205.79    | 914.36               | 853.14                | 61.22                   | 14.936            |                    |         |
| 8,650.00                   | 8,536.65            | 8,566.48            | 8,551.83            | 31.52           | 30.33       | 92.32                 | 100.49                            | -188.16    | 914.50               | 852.93                | 61.56                   | 14.854            |                    |         |
| 8,700.00                   | 8,579.43            | 8,620.31            | 8,600.72            | 31.66           | 30.50       | 92.68                 | 100.74                            | -165.66    | 914.64               | 852.73                | 61.91                   | 14.773            |                    |         |
| 8,750.00                   | 8,619.80            | 8,674.75            | 8,647.78            | 31.80           | 30.68       | 93.03                 | 101.04                            | -138.36    | 914.77               | 852.51                | 62.26                   | 14.693            |                    |         |
| 8,800.00                   | 8,657.44            | 8,729.76            | 8,692.50            | 31.93           | 30.85       | 93.35                 | 101.39                            | -106.36    | 914.89               | 852.29                | 62.61                   | 14.614            |                    |         |
| 8,850.00                   | 8,692.08            | 8,785.31            | 8,734.33            | 32.06           | 31.03       | 93.64                 | 101.79                            | -69.84     | 915.00               | 852.04                | 62.96                   | 14.533            |                    |         |
| 8,900.00                   | 8,723.44            | 8,841.35            | 8,772.75            | 32.19           | 31.22       | 93.91                 | 102.24                            | -29.07     | 915.07               | 851.74                | 63.33                   | 14.450            |                    |         |
| 8,950.00                   | 8,751.29            | 8,897.84            | 8,807.26            | 32.34           | 31.41       | 94.14                 | 102.73                            | 15.62      | 915.10               | 851.39                | 63.71                   | 14.363            |                    |         |
| 9,000.00                   | 8,775.42            | 8,954.71            | 8,837.38            | 32.50           | 31.63       | 94.34                 | 103.26                            | 63.83      | 915.09               | 850.97                | 64.13                   | 14.270            |                    |         |
| 9,050.00                   | 8,795.64            | 9,011.90            | 8,862.71            | 32.67           | 31.86       | 94.50                 | 103.82                            | 115.07     | 915.03               | 850.46                | 64.58                   | 14.170            |                    |         |
| 9,100.00                   | 8,811.80            | 9,069.31            | 8,882.88            | 32.87           | 32.12       | 94.61                 | 104.42                            | 168.80     | 914.92               | 849.85                | 65.06                   | 14.062            |                    |         |
| 9,150.00                   | 8,823.77            | 9,126.88            | 8,897.60            | 33.10           | 32.40       | 94.69                 | 105.03                            | 224.42     | 914.74               | 849.15                | 65.59                   | 13.947            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                |                |                |                 |        |                   |                        |            |                 |                  |                    |                   | Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 334H - Wellbore #1 - Permit Plan 1 |  | Offset Site Error: |  | 0.00 ft |
|----------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|--------------------|-------------------|--------------------------------------------------------------------------------------|--|--------------------|--|---------|
| Survey Program: 0-MWD+IFR1 |                |                |                |                 |        |                   |                        |            |                 |                  |                    |                   |                                                                                      |  | Offset Well Error: |  | 0.50 ft |
| Reference                  |                | Offset         |                | Semi Major Axis |        |                   | Distance               |            |                 |                  |                    |                   |                                                                                      |  |                    |  |         |
| Measured Depth             | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre |            | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | Warning                                                                              |  |                    |  |         |
| (ft)                       | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft) | (ft)            | (ft)             | (ft)               |                   |                                                                                      |  |                    |  |         |
| 9,200.00                   | 8,831.47       | 9,184.51       | 8,906.67       | 33.34           | 32.70  | 94.73             | 105.65                 | 281.31     | 914.51          | 848.36           | 66.15              | 13.824            |                                                                                      |  |                    |  |         |
| 9,250.00                   | 8,834.84       | 9,242.13       | 8,909.98       | 33.60           | 33.03  | 94.73             | 106.28                 | 338.80     | 914.22          | 847.47           | 66.75              | 13.696            |                                                                                      |  |                    |  |         |
| 9,263.62                   | 8,835.00       | 9,256.30       | 8,910.00       | 33.67           | 33.11  | 94.73             | 106.44                 | 352.97     | 914.14          | 847.22           | 66.91              | 13.662            |                                                                                      |  |                    |  |         |
| 9,300.00                   | 8,835.00       | 9,307.32       | 8,910.00       | 33.88           | 33.43  | 94.73             | 106.84                 | 389.35     | 913.95          | 846.51           | 67.45              | 13.551            |                                                                                      |  |                    |  |         |
| 9,400.00                   | 8,835.00       | 9,407.33       | 8,910.00       | 34.53           | 34.13  | 94.73             | 107.94                 | 489.34     | 913.45          | 844.63           | 68.82              | 13.272            |                                                                                      |  |                    |  |         |
| 9,500.00                   | 8,835.00       | 9,507.33       | 8,910.00       | 35.30           | 34.94  | 94.73             | 109.04                 | 589.33     | 912.95          | 842.54           | 70.41              | 12.966            |                                                                                      |  |                    |  |         |
| 9,600.00                   | 8,835.00       | 9,607.33       | 8,910.00       | 36.17           | 35.85  | 94.73             | 110.14                 | 689.32     | 912.45          | 840.25           | 72.20              | 12.638            |                                                                                      |  |                    |  |         |
| 9,700.00                   | 8,835.00       | 9,707.33       | 8,910.00       | 37.13           | 36.85  | 94.74             | 111.24                 | 789.32     | 911.94          | 837.78           | 74.16              | 12.296            |                                                                                      |  |                    |  |         |
| 9,800.00                   | 8,835.00       | 9,807.33       | 8,910.00       | 38.18           | 37.93  | 94.74             | 112.34                 | 889.31     | 911.44          | 835.14           | 76.30              | 11.946            |                                                                                      |  |                    |  |         |
| 9,900.00                   | 8,835.00       | 9,907.33       | 8,910.00       | 39.31           | 39.10  | 94.74             | 113.44                 | 989.30     | 910.94          | 832.35           | 78.59              | 11.592            |                                                                                      |  |                    |  |         |
| 10,000.00                  | 8,835.00       | 10,007.33      | 8,910.00       | 40.51           | 40.33  | 94.74             | 114.54                 | 1,089.29   | 910.44          | 829.42           | 81.02              | 11.238            |                                                                                      |  |                    |  |         |
| 10,100.00                  | 8,835.00       | 10,107.33      | 8,910.00       | 41.78           | 41.62  | 94.75             | 115.64                 | 1,189.29   | 909.94          | 826.36           | 83.57              | 10.888            |                                                                                      |  |                    |  |         |
| 10,200.00                  | 8,835.00       | 10,207.34      | 8,910.00       | 43.10           | 42.98  | 94.75             | 116.74                 | 1,289.28   | 909.43          | 823.18           | 86.25              | 10.544            |                                                                                      |  |                    |  |         |
| 10,300.00                  | 8,835.00       | 10,307.34      | 8,910.00       | 44.49           | 44.38  | 94.75             | 117.84                 | 1,389.27   | 908.93          | 819.90           | 89.03              | 10.209            |                                                                                      |  |                    |  |         |
| 10,400.00                  | 8,835.00       | 10,407.34      | 8,910.00       | 45.92           | 45.84  | 94.75             | 118.94                 | 1,489.27   | 908.43          | 816.52           | 91.91              | 9.884             |                                                                                      |  |                    |  |         |
| 10,500.00                  | 8,835.00       | 10,507.34      | 8,910.00       | 47.39           | 47.34  | 94.76             | 120.04                 | 1,589.26   | 907.93          | 813.05           | 94.88              | 9.570             |                                                                                      |  |                    |  |         |
| 10,600.00                  | 8,835.00       | 10,607.34      | 8,910.00       | 48.91           | 48.87  | 94.76             | 121.14                 | 1,689.25   | 907.43          | 809.50           | 97.92              | 9.267             |                                                                                      |  |                    |  |         |
| 10,700.00                  | 8,835.00       | 10,707.34      | 8,910.00       | 50.47           | 50.45  | 94.76             | 122.24                 | 1,789.24   | 906.92          | 805.88           | 101.04             | 8.976             |                                                                                      |  |                    |  |         |
| 10,800.00                  | 8,835.00       | 10,807.34      | 8,910.00       | 52.06           | 52.06  | 94.77             | 123.34                 | 1,889.24   | 906.42          | 802.19           | 104.23             | 8.696             |                                                                                      |  |                    |  |         |
| 10,900.00                  | 8,835.00       | 10,907.34      | 8,910.00       | 53.68           | 53.69  | 94.77             | 124.44                 | 1,989.23   | 905.92          | 798.44           | 107.48             | 8.429             |                                                                                      |  |                    |  |         |
| 11,000.00                  | 8,835.00       | 11,007.35      | 8,910.00       | 55.32           | 55.36  | 94.77             | 125.54                 | 2,089.22   | 905.42          | 794.64           | 110.78             | 8.173             |                                                                                      |  |                    |  |         |
| 11,100.00                  | 8,835.00       | 11,107.35      | 8,910.00       | 57.00           | 57.05  | 94.77             | 126.64                 | 2,189.21   | 904.91          | 790.78           | 114.13             | 7.929             |                                                                                      |  |                    |  |         |
| 11,200.00                  | 8,835.00       | 11,207.35      | 8,910.00       | 58.70           | 58.76  | 94.78             | 127.74                 | 2,289.21   | 904.41          | 786.88           | 117.53             | 7.695             |                                                                                      |  |                    |  |         |
| 11,300.00                  | 8,835.00       | 11,307.35      | 8,910.00       | 60.41           | 60.49  | 94.78             | 128.84                 | 2,389.20   | 903.91          | 782.94           | 120.97             | 7.472             |                                                                                      |  |                    |  |         |
| 11,400.00                  | 8,835.00       | 11,407.35      | 8,910.00       | 62.15           | 62.24  | 94.78             | 129.94                 | 2,489.19   | 903.41          | 778.96           | 124.45             | 7.259             |                                                                                      |  |                    |  |         |
| 11,500.00                  | 8,835.00       | 11,507.35      | 8,910.00       | 63.91           | 64.01  | 94.78             | 131.03                 | 2,589.18   | 902.91          | 774.94           | 127.96             | 7.056             |                                                                                      |  |                    |  |         |
| 11,600.00                  | 8,835.00       | 11,607.35      | 8,910.00       | 65.69           | 65.79  | 94.79             | 132.13                 | 2,689.18   | 902.40          | 770.90           | 131.51             | 6.862             |                                                                                      |  |                    |  |         |
| 11,700.00                  | 8,835.00       | 11,707.35      | 8,910.00       | 67.47           | 67.59  | 94.79             | 133.23                 | 2,789.17   | 901.90          | 766.82           | 135.09             | 6.677             |                                                                                      |  |                    |  |         |
| 11,800.00                  | 8,835.00       | 11,807.36      | 8,910.00       | 69.28           | 69.41  | 94.79             | 134.33                 | 2,889.16   | 901.40          | 762.71           | 138.69             | 6.499             |                                                                                      |  |                    |  |         |
| 11,900.00                  | 8,835.00       | 11,907.36      | 8,910.00       | 71.09           | 71.23  | 94.79             | 135.43                 | 2,989.16   | 900.90          | 758.58           | 142.32             | 6.330             |                                                                                      |  |                    |  |         |
| 12,000.00                  | 8,835.00       | 12,007.36      | 8,910.00       | 72.92           | 73.07  | 94.80             | 136.53                 | 3,089.15   | 900.40          | 754.42           | 145.98             | 6.168             |                                                                                      |  |                    |  |         |
| 12,100.00                  | 8,835.00       | 12,107.36      | 8,910.00       | 74.76           | 74.92  | 94.80             | 137.63                 | 3,189.14   | 899.89          | 750.24           | 149.65             | 6.013             |                                                                                      |  |                    |  |         |
| 12,200.00                  | 8,835.00       | 12,207.36      | 8,910.00       | 76.61           | 76.77  | 94.80             | 138.73                 | 3,289.13   | 899.39          | 746.04           | 153.35             | 5.865             |                                                                                      |  |                    |  |         |
| 12,300.00                  | 8,835.00       | 12,307.36      | 8,910.00       | 78.47           | 78.64  | 94.81             | 139.83                 | 3,389.13   | 898.89          | 741.83           | 157.06             | 5.723             |                                                                                      |  |                    |  |         |
| 12,400.00                  | 8,835.00       | 12,407.36      | 8,910.00       | 80.34           | 80.52  | 94.81             | 140.93                 | 3,489.12   | 898.39          | 737.59           | 160.80             | 5.587             |                                                                                      |  |                    |  |         |
| 12,500.00                  | 8,835.00       | 12,507.36      | 8,910.00       | 82.22           | 82.40  | 94.81             | 142.03                 | 3,589.11   | 897.89          | 733.34           | 164.55             | 5.457             |                                                                                      |  |                    |  |         |
| 12,600.00                  | 8,835.00       | 12,607.37      | 8,910.00       | 84.11           | 84.29  | 94.81             | 143.13                 | 3,689.10   | 897.38          | 729.07           | 168.31             | 5.332             |                                                                                      |  |                    |  |         |
| 12,700.00                  | 8,835.00       | 12,707.37      | 8,910.00       | 86.00           | 86.19  | 94.82             | 144.23                 | 3,789.10   | 896.88          | 724.79           | 172.09             | 5.212             |                                                                                      |  |                    |  |         |
| 12,800.00                  | 8,835.00       | 12,807.37      | 8,910.00       | 87.90           | 88.10  | 94.82             | 145.33                 | 3,889.09   | 896.38          | 720.50           | 175.88             | 5.096             |                                                                                      |  |                    |  |         |
| 12,900.00                  | 8,835.00       | 12,907.37      | 8,910.00       | 89.81           | 90.01  | 94.82             | 146.43                 | 3,989.08   | 895.88          | 716.19           | 179.69             | 4.986             | Alert                                                                                |  |                    |  |         |
| 13,000.00                  | 8,835.00       | 13,007.37      | 8,910.00       | 91.72           | 91.93  | 94.82             | 147.53                 | 4,089.08   | 895.38          | 711.87           | 183.51             | 4.879             | Alert                                                                                |  |                    |  |         |
| 13,100.00                  | 8,835.00       | 13,107.37      | 8,910.00       | 93.64           | 93.85  | 94.83             | 148.63                 | 4,189.07   | 894.87          | 707.54           | 187.33             | 4.777             | Alert                                                                                |  |                    |  |         |
| 13,200.00                  | 8,835.00       | 13,207.37      | 8,910.00       | 95.56           | 95.78  | 94.83             | 149.73                 | 4,289.06   | 894.37          | 703.20           | 191.17             | 4.678             | Alert                                                                                |  |                    |  |         |
| 13,300.00                  | 8,835.00       | 13,307.37      | 8,910.00       | 97.49           | 97.71  | 94.83             | 150.83                 | 4,389.05   | 893.87          | 698.85           | 195.02             | 4.583             | Alert                                                                                |  |                    |  |         |
| 13,400.00                  | 8,835.00       | 13,407.38      | 8,910.00       | 99.42           | 99.64  | 94.84             | 151.93                 | 4,489.05   | 893.37          | 694.49           | 198.88             | 4.492             | Alert                                                                                |  |                    |  |         |
| 13,500.00                  | 8,835.00       | 13,507.38      | 8,910.00       | 101.36          | 101.59 | 94.84             | 153.03                 | 4,589.04   | 892.86          | 690.12           | 202.74             | 4.404             | Alert                                                                                |  |                    |  |         |
| 13,600.00                  | 8,835.00       | 13,607.38      | 8,910.00       | 103.30          | 103.53 | 94.84             | 154.13                 | 4,689.03   | 892.36          | 685.74           | 206.62             | 4.319             | Alert                                                                                |  |                    |  |         |
| 13,700.00                  | 8,835.00       | 13,707.38      | 8,910.00       | 105.25          | 105.48 | 94.84             | 155.23                 | 4,789.02   | 891.86          | 681.36           | 210.50             | 4.237             | Alert                                                                                |  |                    |  |         |
| 13,800.00                  | 8,835.00       | 13,807.38      | 8,910.00       | 107.20          | 107.43 | 94.85             | 156.33                 | 4,889.02   | 891.36          | 676.97           | 214.39             | 4.158             | Alert                                                                                |  |                    |  |         |
| 13,900.00                  | 8,835.00       | 13,907.38      | 8,910.00       | 109.15          | 109.39 | 94.85             | 157.43                 | 4,989.01   | 890.86          | 672.57           | 218.29             | 4.081             | Alert                                                                                |  |                    |  |         |
| 14,000.00                  | 8,835.00       | 14,007.38      | 8,910.00       | 111.10          | 111.35 | 94.85             | 158.53                 | 5,089.00   | 890.35          | 668.17           | 222.19             | 4.007             | Alert                                                                                |  |                    |  |         |
| 14,100.00                  | 8,835.00       | 14,107.39      | 8,910.00       | 113.06          | 113.31 | 94.85             | 159.63                 | 5,188.99   | 889.85          | 663.76           | 226.10             | 3.936             | Alert                                                                                |  |                    |  |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 334H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Site Error:</b> | 0.00 ft        |
|-----------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|----------------|
| Survey Program: 0-MWD+IFR1                                                                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Well Error:</b> | 0.50 ft        |
| Reference                                                                                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                           |                |
| Measured Depth (ft)                                                                                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor         | Warning        |
| 14,200.00                                                                                                 | 8,835.00            | 14,207.39           | 8,910.00            | 115.03          | 115.27      | 94.86                 | 160.73                            | 5,288.99   | 889.35               | 659.34                | 230.01                  | 3.867                     | Alert          |
| 14,300.00                                                                                                 | 8,835.00            | 14,307.39           | 8,910.00            | 116.99          | 117.24      | 94.86                 | 161.83                            | 5,388.98   | 888.85               | 654.92                | 233.93                  | 3.800                     | Alert          |
| 14,400.00                                                                                                 | 8,835.00            | 14,407.39           | 8,910.00            | 118.96          | 119.21      | 94.86                 | 162.93                            | 5,488.97   | 888.35               | 650.49                | 237.86                  | 3.735                     | Alert          |
| 14,500.00                                                                                                 | 8,835.00            | 14,507.39           | 8,910.00            | 120.93          | 121.19      | 94.87                 | 164.03                            | 5,588.97   | 887.84               | 646.06                | 241.79                  | 3.672                     | Alert          |
| 14,600.00                                                                                                 | 8,835.00            | 14,607.39           | 8,910.00            | 122.90          | 123.16      | 94.87                 | 165.13                            | 5,688.96   | 887.34               | 641.62                | 245.72                  | 3.611                     | Alert          |
| 14,700.00                                                                                                 | 8,835.00            | 14,707.39           | 8,910.00            | 124.88          | 125.14      | 94.87                 | 166.23                            | 5,788.95   | 886.84               | 637.18                | 249.66                  | 3.552                     | Alert          |
| 14,800.00                                                                                                 | 8,835.00            | 14,807.39           | 8,910.00            | 126.86          | 127.12      | 94.87                 | 167.33                            | 5,888.94   | 886.34               | 632.73                | 253.61                  | 3.495                     | Alert          |
| 14,900.00                                                                                                 | 8,835.00            | 14,907.40           | 8,910.00            | 128.84          | 129.10      | 94.88                 | 168.43                            | 5,988.94   | 885.84               | 628.28                | 257.56                  | 3.439                     | Alert          |
| 15,000.00                                                                                                 | 8,835.00            | 15,007.40           | 8,910.00            | 130.82          | 131.08      | 94.88                 | 169.53                            | 6,088.93   | 885.33               | 623.82                | 261.51                  | 3.385                     | Alert          |
| 15,100.00                                                                                                 | 8,835.00            | 15,107.40           | 8,910.00            | 132.80          | 133.07      | 94.88                 | 170.63                            | 6,188.92   | 884.83               | 619.37                | 265.47                  | 3.333                     | Alert          |
| 15,200.00                                                                                                 | 8,835.00            | 15,207.40           | 8,910.00            | 134.79          | 135.06      | 94.88                 | 171.72                            | 6,288.91   | 884.33               | 614.90                | 269.43                  | 3.282                     | Alert          |
| 15,300.00                                                                                                 | 8,835.00            | 15,307.40           | 8,910.00            | 136.78          | 137.04      | 94.89                 | 172.82                            | 6,388.91   | 883.83               | 610.44                | 273.39                  | 3.233                     | Alert          |
| 15,400.00                                                                                                 | 8,835.00            | 15,407.40           | 8,910.00            | 138.76          | 139.04      | 94.89                 | 173.92                            | 6,488.90   | 883.33               | 605.97                | 277.36                  | 3.185                     | Alert          |
| 15,500.00                                                                                                 | 8,835.00            | 15,507.40           | 8,910.00            | 140.76          | 141.03      | 94.89                 | 175.02                            | 6,588.89   | 882.82               | 601.50                | 281.33                  | 3.138                     | Alert          |
| 15,600.00                                                                                                 | 8,835.00            | 15,607.40           | 8,910.00            | 142.75          | 143.02      | 94.90                 | 176.12                            | 6,688.88   | 882.32               | 597.02                | 285.30                  | 3.093                     | Alert          |
| 15,700.00                                                                                                 | 8,835.00            | 15,707.41           | 8,910.00            | 144.74          | 145.02      | 94.90                 | 177.22                            | 6,788.88   | 881.82               | 592.54                | 289.28                  | 3.048                     | Alert          |
| 15,800.00                                                                                                 | 8,835.00            | 15,807.41           | 8,910.00            | 146.74          | 147.01      | 94.90                 | 178.32                            | 6,888.87   | 881.32               | 588.06                | 293.26                  | 3.005                     | Alert          |
| 15,900.00                                                                                                 | 8,835.00            | 15,907.41           | 8,910.00            | 148.73          | 149.01      | 94.90                 | 179.42                            | 6,988.86   | 880.82               | 583.58                | 297.24                  | 2.963                     | Alert          |
| 16,000.00                                                                                                 | 8,835.00            | 16,007.41           | 8,910.00            | 150.73          | 151.01      | 94.91                 | 180.52                            | 7,088.86   | 880.31               | 579.09                | 301.22                  | 2.922                     | Alert          |
| 16,100.00                                                                                                 | 8,835.00            | 16,107.41           | 8,910.00            | 152.73          | 153.01      | 94.91                 | 181.62                            | 7,188.85   | 879.81               | 574.60                | 305.21                  | 2.883                     | Alert          |
| 16,200.00                                                                                                 | 8,835.00            | 16,207.41           | 8,910.00            | 154.73          | 155.01      | 94.91                 | 182.72                            | 7,288.84   | 879.31               | 570.11                | 309.20                  | 2.844                     | Alert          |
| 16,300.00                                                                                                 | 8,835.00            | 16,307.41           | 8,910.00            | 156.73          | 157.01      | 94.92                 | 183.82                            | 7,388.83   | 878.81               | 565.62                | 313.19                  | 2.806                     | Alert          |
| 16,400.00                                                                                                 | 8,835.00            | 16,407.41           | 8,910.00            | 158.74          | 159.02      | 94.92                 | 184.92                            | 7,488.83   | 878.31               | 561.13                | 317.18                  | 2.769                     | Alert          |
| 16,500.00                                                                                                 | 8,835.00            | 16,507.42           | 8,910.00            | 160.74          | 161.02      | 94.92                 | 186.02                            | 7,588.82   | 877.80               | 556.63                | 321.18                  | 2.733                     | Alert          |
| 16,600.00                                                                                                 | 8,835.00            | 16,607.42           | 8,910.00            | 162.74          | 163.03      | 94.92                 | 187.12                            | 7,688.81   | 877.30               | 552.13                | 325.17                  | 2.698                     | Alert          |
| 16,700.00                                                                                                 | 8,835.00            | 16,707.42           | 8,910.00            | 164.75          | 165.03      | 94.93                 | 188.22                            | 7,788.80   | 876.80               | 547.63                | 329.17                  | 2.664                     | Alert          |
| 16,800.00                                                                                                 | 8,835.00            | 16,807.42           | 8,910.00            | 166.76          | 167.04      | 94.93                 | 189.32                            | 7,888.80   | 876.30               | 543.12                | 333.17                  | 2.630                     | Alert          |
| 16,900.00                                                                                                 | 8,835.00            | 16,907.42           | 8,910.00            | 168.77          | 169.05      | 94.93                 | 190.42                            | 7,988.79   | 875.80               | 538.62                | 337.18                  | 2.597                     | Alert          |
| 17,000.00                                                                                                 | 8,835.00            | 17,007.42           | 8,910.00            | 170.77          | 171.06      | 94.94                 | 191.52                            | 8,088.78   | 875.29               | 534.11                | 341.18                  | 2.565                     | Alert          |
| 17,100.00                                                                                                 | 8,835.00            | 17,107.42           | 8,910.00            | 172.78          | 173.07      | 94.94                 | 192.62                            | 8,188.78   | 874.79               | 529.60                | 345.19                  | 2.534                     | Alert          |
| 17,200.00                                                                                                 | 8,835.00            | 17,207.42           | 8,910.00            | 174.79          | 175.08      | 94.94                 | 193.72                            | 8,288.77   | 874.29               | 525.09                | 349.20                  | 2.504                     | Alert          |
| 17,300.00                                                                                                 | 8,835.00            | 17,307.43           | 8,910.00            | 176.81          | 177.09      | 94.94                 | 194.82                            | 8,388.76   | 873.79               | 520.58                | 353.21                  | 2.474                     | Minor Risk     |
| 17,400.00                                                                                                 | 8,835.00            | 17,407.43           | 8,910.00            | 178.82          | 179.11      | 94.95                 | 195.92                            | 8,488.75   | 873.29               | 516.07                | 357.22                  | 2.445                     | Minor Risk     |
| 17,500.00                                                                                                 | 8,835.00            | 17,507.43           | 8,910.00            | 180.83          | 181.12      | 94.95                 | 197.02                            | 8,588.75   | 872.78               | 511.55                | 361.23                  | 2.416                     | Minor Risk     |
| 17,600.00                                                                                                 | 8,835.00            | 17,607.43           | 8,910.00            | 182.84          | 183.13      | 94.95                 | 198.12                            | 8,688.74   | 872.28               | 507.04                | 365.25                  | 2.388                     | Minor Risk     |
| 17,700.00                                                                                                 | 8,835.00            | 17,707.43           | 8,910.00            | 184.86          | 185.15      | 94.96                 | 199.22                            | 8,788.73   | 871.78               | 502.52                | 369.26                  | 2.361                     | Minor Risk     |
| 17,800.00                                                                                                 | 8,835.00            | 17,807.43           | 8,910.00            | 186.87          | 187.16      | 94.96                 | 200.32                            | 8,888.72   | 871.28               | 498.00                | 373.28                  | 2.334                     | Minor Risk     |
| 17,900.00                                                                                                 | 8,835.00            | 17,907.43           | 8,910.00            | 188.89          | 189.18      | 94.96                 | 201.42                            | 8,988.72   | 870.78               | 493.48                | 377.30                  | 2.308                     | Minor Risk     |
| 18,000.00                                                                                                 | 8,835.00            | 18,007.43           | 8,910.00            | 190.91          | 191.20      | 94.96                 | 202.52                            | 9,088.71   | 870.27               | 488.96                | 381.32                  | 2.282                     | Minor Risk     |
| 18,100.00                                                                                                 | 8,835.00            | 18,107.44           | 8,910.00            | 192.92          | 193.21      | 94.97                 | 203.62                            | 9,188.70   | 869.77               | 484.44                | 385.34                  | 2.257                     | Minor Risk     |
| 18,200.00                                                                                                 | 8,835.00            | 18,207.44           | 8,910.00            | 194.94          | 195.23      | 94.97                 | 204.72                            | 9,288.69   | 869.27               | 479.91                | 389.36                  | 2.233                     | Minor Risk     |
| 18,300.00                                                                                                 | 8,835.00            | 18,307.44           | 8,910.00            | 196.96          | 197.25      | 94.97                 | 205.82                            | 9,388.69   | 868.77               | 475.39                | 393.38                  | 2.208                     | Minor Risk     |
| 18,400.00                                                                                                 | 8,835.00            | 18,407.44           | 8,910.00            | 198.98          | 199.27      | 94.98                 | 206.92                            | 9,488.68   | 868.27               | 470.86                | 397.41                  | 2.185                     | Minor Risk     |
| 18,500.00                                                                                                 | 8,835.00            | 18,507.44           | 8,910.00            | 201.00          | 201.29      | 94.98                 | 208.02                            | 9,588.67   | 867.77               | 466.33                | 401.43                  | 2.162                     | Minor Risk     |
| 18,600.00                                                                                                 | 8,835.00            | 18,607.44           | 8,910.00            | 203.02          | 203.31      | 94.98                 | 209.12                            | 9,688.67   | 867.26               | 461.81                | 405.46                  | 2.139                     | Minor Risk     |
| 18,700.00                                                                                                 | 8,835.00            | 18,707.44           | 8,910.00            | 205.04          | 205.33      | 94.98                 | 210.22                            | 9,788.66   | 866.76               | 457.28                | 409.48                  | 2.117                     | Minor Risk     |
| 18,800.00                                                                                                 | 8,835.00            | 18,807.44           | 8,910.00            | 207.06          | 207.35      | 94.99                 | 211.32                            | 9,888.65   | 866.26               | 452.75                | 413.51                  | 2.095                     | Minor Risk     |
| 18,900.00                                                                                                 | 8,835.00            | 18,907.45           | 8,910.00            | 209.08          | 209.37      | 94.99                 | 212.41                            | 9,988.64   | 865.76               | 448.22                | 417.54                  | 2.073                     | Minor Risk     |
| 19,000.00                                                                                                 | 8,835.00            | 19,007.45           | 8,910.00            | 211.10          | 211.39      | 94.99                 | 213.51                            | 10,088.64  | 865.26               | 443.68                | 421.57                  | 2.052                     | Minor Risk     |
| 19,100.00                                                                                                 | 8,835.00            | 19,107.45           | 8,910.00            | 213.12          | 213.41      | 95.00                 | 214.61                            | 10,188.63  | 864.75               | 439.15                | 425.60                  | 2.032                     | Minor Risk     |
| 19,200.00                                                                                                 | 8,835.00            | 19,207.45           | 8,910.00            | 215.15          | 215.44      | 95.00                 | 215.71                            | 10,288.62  | 864.25               | 434.62                | 429.63                  | 2.012                     | Minor Risk     |
| 19,308.27                                                                                                 | 8,835.00            | 19,300.82           | 8,910.00            | 217.34          | 217.33      | 95.00                 | 216.90                            | 10,396.88  | 863.71               | 430.01                | 433.70                  | 1.991                     | Minor Risk, SF |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 431-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                         | 0.00                | 15.22               | 15.22               | 0.50            | 0.50        | -177.19               | -1,704.21                         | -83.63     | 1,706.27             |                       |                         |                   |                    |         |
| 100.00                       | 100.00              | 113.41              | 113.41              | 0.52            | 0.54        | -177.20               | -1,704.29                         | -83.49     | 1,706.33             | 1,705.28              | 1.05                    | 1,620.109         |                    |         |
| 200.00                       | 200.00              | 211.60              | 211.60              | 0.70            | 0.61        | -177.21               | -1,704.48                         | -83.15     | 1,706.51             | 1,705.19              | 1.32                    | 1,295.968         |                    |         |
| 300.00                       | 300.00              | 309.79              | 309.79              | 0.99            | 0.72        | -177.23               | -1,704.78                         | -82.59     | 1,706.79             | 1,705.08              | 1.71                    | 997.428           |                    |         |
| 400.00                       | 400.00              | 407.98              | 407.97              | 1.31            | 0.85        | -177.25               | -1,705.20                         | -81.83     | 1,707.18             | 1,705.02              | 2.16                    | 790.128           |                    |         |
| 500.00                       | 500.00              | 501.77              | 501.76              | 1.65            | 1.10        | -177.28               | -1,705.80                         | -80.99     | 1,707.77             | 1,705.02              | 2.75                    | 621.508           |                    |         |
| 600.00                       | 600.00              | 605.09              | 605.07              | 1.99            | 1.44        | -177.31               | -1,706.63                         | -80.21     | 1,708.55             | 1,705.12              | 3.43                    | 497.854           |                    |         |
| 700.00                       | 700.00              | 705.50              | 705.47              | 2.34            | 1.78        | -177.34               | -1,707.26                         | -79.46     | 1,709.14             | 1,705.01              | 4.12                    | 414.584           |                    |         |
| 800.00                       | 800.00              | 806.74              | 806.72              | 2.69            | 2.14        | -177.36               | -1,707.81                         | -78.88     | 1,709.65             | 1,704.83              | 4.82                    | 354.388           |                    |         |
| 900.00                       | 900.00              | 902.03              | 901.99              | 3.04            | 2.47        | -177.37               | -1,708.54                         | -78.52     | 1,710.40             | 1,704.89              | 5.51                    | 310.472           |                    |         |
| 1,000.00                     | 1,000.00            | 1,016.52            | 1,016.48            | 3.40            | 2.87        | -177.40               | -1,708.93                         | -77.68     | 1,710.70             | 1,704.44              | 6.26                    | 273.172           |                    |         |
| 1,100.00                     | 1,100.00            | 1,119.71            | 1,119.67            | 3.75            | 3.23        | -177.42               | -1,708.73                         | -77.03     | 1,710.47             | 1,703.50              | 6.98                    | 245.204           |                    |         |
| 1,200.00                     | 1,200.00            | 1,221.64            | 1,221.60            | 4.11            | 3.58        | -177.45               | -1,708.51                         | -76.12     | 1,710.21             | 1,702.53              | 7.69                    | 222.468           |                    |         |
| 1,300.00                     | 1,300.00            | 1,329.58            | 1,329.53            | 4.46            | 3.96        | -177.50               | -1,707.96                         | -74.67     | 1,709.65             | 1,701.23              | 8.42                    | 203.033           |                    |         |
| 1,400.00                     | 1,400.00            | 1,431.04            | 1,430.98            | 4.82            | 4.31        | -177.54               | -1,707.12                         | -73.47     | 1,708.77             | 1,699.64              | 9.13                    | 187.141           |                    |         |
| 1,500.00                     | 1,500.00            | 1,525.19            | 1,525.11            | 5.18            | 4.64        | -177.58               | -1,706.49                         | -72.16     | 1,708.04             | 1,698.22              | 9.82                    | 173.946           |                    |         |
| 1,600.00                     | 1,600.00            | 1,630.56            | 1,630.47            | 5.53            | 5.02        | -177.62               | -1,705.78                         | -70.92     | 1,707.32             | 1,696.77              | 10.55                   | 161.872           |                    |         |
| 1,700.00                     | 1,700.00            | 1,726.14            | 1,726.05            | 5.89            | 5.35        | -177.65               | -1,705.17                         | -69.88     | 1,706.63             | 1,695.39              | 11.24                   | 151.810           |                    |         |
| 1,800.00                     | 1,800.00            | 1,829.92            | 1,829.81            | 6.25            | 5.72        | -177.70               | -1,704.43                         | -68.48     | 1,705.87             | 1,693.90              | 11.97                   | 142.551           |                    |         |
| 1,900.00                     | 1,900.00            | 1,928.53            | 1,928.41            | 6.61            | 6.07        | -177.74               | -1,703.71                         | -67.10     | 1,705.08             | 1,692.40              | 12.67                   | 134.532           |                    |         |
| 2,000.00                     | 2,000.00            | 2,033.08            | 2,032.95            | 6.96            | 6.44        | -177.79               | -1,702.93                         | -65.73     | 1,704.29             | 1,690.88              | 13.40                   | 127.173           |                    |         |
| 2,100.00                     | 2,099.99            | 2,145.42            | 2,145.28            | 7.32            | 6.83        | -165.04               | -1,701.33                         | -65.14     | 1,703.68             | 1,689.53              | 14.15                   | 120.414           |                    |         |
| 2,104.93                     | 2,104.93            | 2,150.71            | 2,150.57            | 7.34            | 6.85        | -165.04               | -1,701.23                         | -65.13     | 1,703.67             | 1,689.49              | 14.18                   | 120.110 CC        |                    |         |
| 2,200.00                     | 2,199.96            | 2,245.86            | 2,245.70            | 7.68            | 7.18        | -165.06               | -1,699.47                         | -65.17     | 1,704.36             | 1,689.51              | 14.85                   | 114.764           |                    |         |
| 2,300.00                     | 2,299.86            | 2,344.28            | 2,344.10            | 8.04            | 7.51        | -165.07               | -1,697.79                         | -65.46     | 1,706.88             | 1,691.34              | 15.55                   | 109.795           |                    |         |
| 2,400.00                     | 2,399.68            | 2,444.31            | 2,444.12            | 8.39            | 7.86        | -165.10               | -1,696.08                         | -65.81     | 1,711.09             | 1,694.84              | 16.25                   | 105.313           |                    |         |
| 2,500.00                     | 2,499.37            | 2,542.06            | 2,541.85            | 8.75            | 8.20        | -165.14               | -1,694.46                         | -66.03     | 1,717.03             | 1,700.09              | 16.94                   | 101.340           |                    |         |
| 2,600.00                     | 2,598.90            | 2,636.09            | 2,635.88            | 9.11            | 8.52        | -165.20               | -1,693.11                         | -66.00     | 1,724.87             | 1,707.24              | 17.63                   | 97.838            |                    |         |
| 2,700.00                     | 2,698.26            | 2,734.75            | 2,734.53            | 9.46            | 8.87        | -165.28               | -1,691.98                         | -65.57     | 1,734.66             | 1,716.33              | 18.33                   | 94.618            |                    |         |
| 2,800.00                     | 2,797.40            | 2,834.20            | 2,833.97            | 9.82            | 9.22        | -165.35               | -1,690.76                         | -65.84     | 1,746.09             | 1,727.05              | 19.04                   | 91.718            |                    |         |
| 2,900.00                     | 2,896.30            | 2,941.08            | 2,940.84            | 10.18           | 9.59        | -165.44               | -1,689.44                         | -66.03     | 1,759.20             | 1,739.43              | 19.77                   | 88.996            |                    |         |
| 3,000.00                     | 2,994.93            | 3,085.30            | 3,084.98            | 10.54           | 10.09       | -165.58               | -1,684.73                         | -66.77     | 1,771.82             | 1,751.20              | 20.62                   | 85.915            |                    |         |
| 3,100.00                     | 3,093.26            | 3,187.41            | 3,186.99            | 10.90           | 10.45       | -165.68               | -1,680.25                         | -67.04     | 1,785.16             | 1,763.82              | 21.34                   | 83.652            |                    |         |
| 3,195.07                     | 3,186.42            | 3,283.50            | 3,282.99            | 11.24           | 10.79       | -165.78               | -1,675.99                         | -67.37     | 1,799.36             | 1,777.34              | 22.02                   | 81.714            |                    |         |
| 3,200.00                     | 3,191.25            | 3,288.52            | 3,288.00            | 11.26           | 10.81       | -165.79               | -1,675.76                         | -67.39     | 1,800.13             | 1,778.08              | 22.06                   | 81.616            |                    |         |
| 3,300.00                     | 3,289.08            | 3,380.02            | 3,379.42            | 11.62           | 11.13       | -165.93               | -1,671.77                         | -67.66     | 1,815.96             | 1,793.22              | 22.74                   | 79.857            |                    |         |
| 3,400.00                     | 3,386.91            | 3,608.43            | 3,607.07            | 11.98           | 11.94       | -166.16               | -1,654.52                         | -71.51     | 1,828.82             | 1,804.99              | 23.84                   | 76.727            |                    |         |
| 3,500.00                     | 3,484.74            | 3,885.67            | 3,880.87            | 12.35           | 12.94       | -166.38               | -1,612.09                         | -77.32     | 1,835.04             | 1,810.11              | 24.92                   | 73.627            |                    |         |
| 3,600.00                     | 3,582.58            | 4,000.18            | 3,992.71            | 12.72           | 13.37       | -166.39               | -1,588.07                         | -82.42     | 1,834.27             | 1,808.60              | 25.67                   | 71.460            |                    |         |
| 3,700.00                     | 3,680.41            | 4,092.27            | 4,082.46            | 13.09           | 13.72       | -166.36               | -1,568.09                         | -87.46     | 1,832.77             | 1,806.39              | 26.38                   | 69.467            |                    |         |
| 3,760.57                     | 3,739.67            | 4,134.69            | 4,123.89            | 13.31           | 13.88       | -166.35               | -1,559.32                         | -89.90     | 1,832.47             | 1,805.68              | 26.80                   | 68.386            |                    |         |
| 3,800.00                     | 3,778.24            | 4,171.63            | 4,160.03            | 13.46           | 14.02       | -166.33               | -1,551.94                         | -92.03     | 1,832.56             | 1,805.48              | 27.08                   | 67.673            |                    |         |
| 3,900.00                     | 3,876.08            | 4,295.98            | 4,281.48            | 13.83           | 14.51       | -166.32               | -1,525.95                         | -98.00     | 1,831.80             | 1,803.94              | 27.85                   | 65.770            |                    |         |
| 4,000.00                     | 3,973.91            | 4,386.44            | 4,369.78            | 14.21           | 14.86       | -166.33               | -1,506.69                         | -101.87    | 1,830.68             | 1,802.11              | 28.57                   | 64.073            |                    |         |
| 4,100.00                     | 4,071.74            | 4,481.88            | 4,463.12            | 14.58           | 15.24       | -166.34               | -1,487.21                         | -106.05    | 1,830.45             | 1,801.15              | 29.30                   | 62.469            |                    |         |
| 4,200.00                     | 4,169.57            | 4,597.27            | 4,575.83            | 14.96           | 15.70       | -166.38               | -1,462.79                         | -110.01    | 1,829.43             | 1,799.36              | 30.07                   | 60.847            |                    |         |
| 4,300.00                     | 4,267.41            | 4,686.91            | 4,663.38            | 15.33           | 16.06       | -166.43               | -1,443.73                         | -112.45    | 1,828.32             | 1,797.53              | 30.79                   | 59.379            |                    |         |
| 4,382.52                     | 4,348.13            | 4,756.69            | 4,731.66            | 15.64           | 16.34       | -166.47               | -1,429.43                         | -114.33    | 1,828.05             | 1,796.67              | 31.38                   | 58.252            |                    |         |
| 4,400.00                     | 4,365.24            | 4,771.80            | 4,746.45            | 15.71           | 16.40       | -166.48               | -1,426.39                         | -114.76    | 1,828.06             | 1,796.55              | 31.51                   | 58.020            |                    |         |
| 4,500.00                     | 4,463.07            | 4,882.93            | 4,855.29            | 16.09           | 16.85       | -166.54               | -1,404.15                         | -117.86    | 1,828.26             | 1,795.99              | 32.27                   | 56.654            |                    |         |
| 4,600.00                     | 4,560.90            | 4,981.72            | 4,951.90            | 16.47           | 17.25       | -166.64               | -1,383.54                         | -119.17    | 1,827.55             | 1,794.54              | 33.01                   | 55.357            |                    |         |
| 4,643.91                     | 4,603.86            | 5,018.19            | 4,987.60            | 16.63           | 17.40       | -166.68               | -1,376.10                         | -119.47    | 1,827.45             | 1,794.12              | 33.33                   | 54.832            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 431-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 4,700.00                     | 4,658.74            | 5,059.66            | 5,028.25            | 16.85           | 17.56       | -166.73               | -1,367.90                         | -119.86    | 1,827.68             | 1,793.96              | 33.72                   | 54.202            |                    |         |
| 4,800.00                     | 4,756.57            | 5,137.21            | 5,104.41            | 17.23           | 17.88       | -166.81               | -1,353.39                         | -120.89    | 1,829.15             | 1,794.73              | 34.42                   | 53.141            |                    |         |
| 4,900.00                     | 4,854.40            | 5,222.94            | 5,188.78            | 17.61           | 18.22       | -166.89               | -1,338.18                         | -122.17    | 1,831.63             | 1,796.49              | 35.14                   | 52.130            |                    |         |
| 5,000.00                     | 4,952.23            | 5,321.16            | 5,285.50            | 17.99           | 18.62       | -166.97               | -1,321.21                         | -124.13    | 1,834.59             | 1,798.71              | 35.88                   | 51.132            |                    |         |
| 5,100.00                     | 5,050.07            | 5,419.39            | 5,382.19            | 18.37           | 19.01       | -167.06               | -1,303.96                         | -125.88    | 1,837.27             | 1,800.64              | 36.62                   | 50.167            |                    |         |
| 5,200.00                     | 5,147.90            | 5,495.55            | 5,457.29            | 18.75           | 19.32       | -167.13               | -1,291.39                         | -127.18    | 1,840.99             | 1,803.68              | 37.31                   | 49.338            |                    |         |
| 5,300.00                     | 5,245.73            | 5,627.90            | 5,587.87            | 19.14           | 19.85       | -167.29               | -1,269.80                         | -127.97    | 1,845.12             | 1,806.98              | 38.14                   | 48.379            |                    |         |
| 5,400.00                     | 5,343.56            | 5,743.00            | 5,700.91            | 19.52           | 20.32       | -167.49               | -1,248.19                         | -126.92    | 1,846.48             | 1,807.55              | 38.92                   | 47.441            |                    |         |
| 5,500.00                     | 5,441.40            | 5,846.52            | 5,802.66            | 19.90           | 20.75       | -167.65               | -1,229.14                         | -126.58    | 1,848.34             | 1,808.66              | 39.68                   | 46.582            |                    |         |
| 5,600.00                     | 5,539.23            | 5,977.09            | 5,930.65            | 20.29           | 21.29       | -167.78               | -1,203.41                         | -128.25    | 1,848.81             | 1,808.31              | 40.49                   | 45.658            |                    |         |
| 5,605.50                     | 5,544.61            | 5,980.79            | 5,934.27            | 20.31           | 21.30       | -167.78               | -1,202.66                         | -128.36    | 1,848.80             | 1,808.27              | 40.53                   | 45.614            |                    |         |
| 5,700.00                     | 5,637.06            | 6,044.42            | 5,996.66            | 20.67           | 21.57       | -167.81               | -1,190.32                         | -130.51    | 1,849.59             | 1,808.41              | 41.18                   | 44.912            |                    |         |
| 5,800.00                     | 5,734.90            | 6,143.00            | 6,093.47            | 21.05           | 21.98       | -167.82               | -1,172.23                         | -134.70    | 1,851.47             | 1,809.54              | 41.93                   | 44.152            |                    |         |
| 5,900.00                     | 5,832.73            | 6,283.81            | 6,231.43            | 21.44           | 22.57       | -167.83               | -1,144.72                         | -140.72    | 1,852.17             | 1,809.39              | 42.77                   | 43.303            |                    |         |
| 6,000.00                     | 5,930.56            | 6,396.04            | 6,340.97            | 21.83           | 23.05       | -167.82               | -1,120.90                         | -146.17    | 1,851.07             | 1,807.52              | 43.55                   | 42.501            |                    |         |
| 6,100.00                     | 6,028.39            | 6,497.45            | 6,439.95            | 22.21           | 23.49       | -167.82               | -1,099.38                         | -151.00    | 1,850.02             | 1,805.71              | 44.32                   | 41.746            |                    |         |
| 6,189.33                     | 6,115.78            | 6,564.67            | 6,505.60            | 22.56           | 23.77       | -167.84               | -1,085.15                         | -153.40    | 1,849.23             | 1,804.27              | 44.95                   | 41.135            |                    |         |
| 6,200.00                     | 6,126.23            | 6,570.64            | 6,511.44            | 22.60           | 23.80       | -167.84               | -1,083.95                         | -153.59    | 1,849.24             | 1,804.21              | 45.03                   | 41.070            |                    |         |
| 6,300.00                     | 6,224.06            | 6,628.00            | 6,567.76            | 22.98           | 24.04       | -167.87               | -1,073.18                         | -155.19    | 1,850.69             | 1,805.00              | 45.69                   | 40.503            |                    |         |
| 6,400.00                     | 6,321.89            | 6,710.03            | 6,648.56            | 23.37           | 24.38       | -167.95               | -1,059.10                         | -156.51    | 1,853.79             | 1,807.39              | 46.40                   | 39.950            |                    |         |
| 6,500.00                     | 6,419.72            | 6,860.18            | 6,796.31            | 23.76           | 25.00       | -168.14               | -1,032.40                         | -157.09    | 1,856.48             | 1,809.21              | 47.27                   | 39.270            |                    |         |
| 6,572.22                     | 6,490.38            | 6,947.79            | 6,882.08            | 24.03           | 25.38       | -168.24               | -1,014.55                         | -157.83    | 1,856.32             | 1,808.47              | 47.85                   | 38.793            |                    |         |
| 6,600.00                     | 6,517.56            | 6,967.58            | 6,901.47            | 24.14           | 25.46       | -168.26               | -1,010.59                         | -157.95    | 1,856.38             | 1,808.34              | 48.05                   | 38.636            |                    |         |
| 6,700.00                     | 6,615.39            | 7,049.07            | 6,981.45            | 24.53           | 25.80       | -168.37               | -994.97                           | -158.28    | 1,857.49             | 1,808.72              | 48.77                   | 38.089            |                    |         |
| 6,800.00                     | 6,713.22            | 7,162.24            | 7,092.55            | 24.92           | 26.28       | -168.48               | -973.50                           | -159.77    | 1,858.83             | 1,809.27              | 49.55                   | 37.511            |                    |         |
| 6,900.00                     | 6,811.05            | 7,265.96            | 7,194.19            | 25.30           | 26.72       | -168.57               | -952.88                           | -161.53    | 1,859.21             | 1,808.89              | 50.32                   | 36.947            |                    |         |
| 7,000.00                     | 6,908.89            | 7,334.05            | 7,261.00            | 25.69           | 27.01       | -168.64               | -939.80                           | -162.58    | 1,860.40             | 1,809.39              | 51.01                   | 36.471            |                    |         |
| 7,100.00                     | 7,006.72            | 7,391.00            | 7,317.13            | 26.08           | 27.25       | -168.70               | -930.18                           | -163.25    | 1,863.82             | 1,812.17              | 51.65                   | 36.083            |                    |         |
| 7,200.00                     | 7,104.55            | 7,504.43            | 7,429.02            | 26.47           | 27.71       | -168.82               | -911.57                           | -164.45    | 1,867.75             | 1,815.30              | 52.45                   | 35.612            |                    |         |
| 7,216.87                     | 7,121.05            | 7,515.89            | 7,440.32            | 26.53           | 27.76       | -168.83               | -909.70                           | -164.58    | 1,868.42             | 1,815.86              | 52.56                   | 35.548            |                    |         |
| 7,300.00                     | 7,202.57            | 7,572.38            | 7,496.12            | 26.85           | 27.99       | -168.89               | -900.92                           | -165.29    | 1,871.56             | 1,818.45              | 53.11                   | 35.240            |                    |         |
| 7,400.00                     | 7,301.06            | 7,627.10            | 7,550.31            | 27.23           | 28.21       | -168.93               | -893.41                           | -166.16    | 1,874.84             | 1,821.14              | 53.70                   | 34.912            |                    |         |
| 7,500.00                     | 7,399.97            | 7,681.20            | 7,604.07            | 27.61           | 28.42       | -168.96               | -887.40                           | -167.32    | 1,878.09             | 1,823.83              | 54.26                   | 34.610            |                    |         |
| 7,600.00                     | 7,499.23            | 7,792.27            | 7,714.50            | 27.98           | 28.84       | -169.01               | -875.70                           | -168.90    | 1,879.38             | 1,824.33              | 55.04                   | 34.144            |                    |         |
| 7,700.00                     | 7,598.77            | 7,868.00            | 7,789.86            | 28.34           | 29.13       | -169.06               | -868.21                           | -168.55    | 1,878.80             | 1,823.13              | 55.67                   | 33.750            |                    |         |
| 7,800.00                     | 7,698.53            | 7,927.74            | 7,849.38            | 28.70           | 29.35       | -169.13               | -863.29                           | -167.32    | 1,877.36             | 1,821.16              | 56.20                   | 33.404            |                    |         |
| 7,900.00                     | 7,798.44            | 7,999.44            | 7,920.90            | 29.05           | 29.60       | -169.21               | -858.73                           | -165.12    | 1,875.24             | 1,818.47              | 56.77                   | 33.032            |                    |         |
| 8,000.00                     | 7,898.42            | 8,090.17            | 8,011.49            | 29.39           | 29.93       | -169.22               | -853.89                           | -164.75    | 1,871.55             | 1,814.12              | 57.43                   | 32.591            |                    |         |
| 8,013.58                     | 7,912.00            | 8,104.80            | 8,026.10            | 29.43           | 29.98       | 178.00                | -853.13                           | -164.88    | 1,870.86             | 1,813.34              | 57.53                   | 32.522            |                    |         |
| 8,100.00                     | 7,998.42            | 8,184.31            | 8,105.50            | 29.73           | 30.26       | 178.03                | -848.95                           | -165.98    | 1,866.30             | 1,808.20              | 58.09                   | 32.126            |                    |         |
| 8,200.00                     | 8,098.42            | 8,262.08            | 8,183.20            | 30.07           | 30.53       | 178.06                | -845.70                           | -166.86    | 1,862.06             | 1,803.39              | 58.67                   | 31.737            |                    |         |
| 8,300.00                     | 8,198.42            | 8,361.44            | 8,282.48            | 30.41           | 30.87       | 178.08                | -842.05                           | -167.89    | 1,858.35             | 1,798.99              | 59.36                   | 31.305            |                    |         |
| 8,363.62                     | 8,262.04            | 8,424.07            | 8,344.99            | 30.62           | 31.09       | 177.99                | -839.65                           | -164.92    | 1,856.02             | 1,796.22              | 59.80                   | 31.038            |                    |         |
| 8,400.00                     | 8,298.40            | 8,467.80            | 8,388.38            | 30.75           | 31.23       | 88.36                 | -837.84                           | -159.95    | 1,854.63             | 1,794.55              | 60.08                   | 30.868            |                    |         |
| 8,450.00                     | 8,348.10            | 8,513.78            | 8,433.18            | 30.91           | 31.38       | 88.41                 | -835.63                           | -149.97    | 1,852.44             | 1,792.05              | 60.39                   | 30.675            |                    |         |
| 8,500.00                     | 8,397.14            | 8,552.66            | 8,470.03            | 31.07           | 31.50       | 88.46                 | -833.88                           | -137.74    | 1,850.43             | 1,789.78              | 60.65                   | 30.508            |                    |         |
| 8,550.00                     | 8,445.15            | 8,590.82            | 8,505.03            | 31.23           | 31.61       | 88.49                 | -832.26                           | -122.65    | 1,848.59             | 1,787.68              | 60.91                   | 30.350            |                    |         |
| 8,600.00                     | 8,491.77            | 8,621.36            | 8,531.99            | 31.38           | 31.69       | 88.53                 | -831.17                           | -108.36    | 1,847.09             | 1,785.97              | 61.12                   | 30.221            |                    |         |
| 8,650.00                     | 8,536.65            | 8,644.92            | 8,552.04            | 31.52           | 31.75       | 88.56                 | -830.55                           | -96.01     | 1,846.07             | 1,784.79              | 61.28                   | 30.123            |                    |         |
| 8,700.00                     | 8,579.43            | 8,677.00            | 8,578.17            | 31.66           | 31.83       | 88.53                 | -830.29                           | -77.42     | 1,845.81             | 1,784.32              | 61.49                   | 30.017            |                    |         |
| 8,712.37                     | 8,589.66            | 8,677.00            | 8,578.17            | 31.70           | 31.83       | 88.54                 | -830.29                           | -77.42     | 1,845.77             | 1,784.27              | 61.50                   | 30.013            |                    |         |
| 8,750.00                     | 8,619.80            | 8,688.73            | 8,587.40            | 31.80           | 31.85       | 88.50                 | -830.36                           | -70.17     | 1,846.05             | 1,784.47              | 61.59                   | 29.975            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 431-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 8,800.00                     | 8,657.44            | 8,714.25            | 8,606.94            | 31.93           | 31.90       | 88.43                 | -830.73                           | -53.77     | 1,846.94             | 1,785.18              | 61.76                   | 29.904            |                    |         |
| 8,850.00                     | 8,692.08            | 8,772.66            | 8,648.60            | 32.06           | 32.00       | 88.39                 | -831.88                           | -12.90     | 1,848.12             | 1,785.96              | 62.16                   | 29.732            |                    |         |
| 8,900.00                     | 8,723.44            | 8,882.37            | 8,716.38            | 32.19           | 32.16       | 88.35                 | -830.98                           | 73.26      | 1,847.83             | 1,784.88              | 62.95                   | 29.355            |                    |         |
| 8,950.00                     | 8,751.29            | 8,922.05            | 8,738.13            | 32.34           | 32.22       | 88.42                 | -830.13                           | 106.44     | 1,847.02             | 1,783.69              | 63.32                   | 29.169            |                    |         |
| 9,000.00                     | 8,775.42            | 8,986.01            | 8,769.14            | 32.50           | 32.33       | 88.53                 | -828.48                           | 162.33     | 1,845.99             | 1,782.04              | 63.95                   | 28.868            |                    |         |
| 9,050.00                     | 8,795.64            | 9,050.00            | 8,797.12            | 32.67           | 32.54       | 88.72                 | -826.01                           | 222.54     | 1,844.35             | 1,779.69              | 64.66                   | 28.525            |                    |         |
| 9,100.00                     | 8,811.80            | 9,103.70            | 8,816.53            | 32.87           | 32.87       | 89.00                 | -823.73                           | 269.89     | 1,842.34             | 1,776.98              | 65.35                   | 28.191            |                    |         |
| 9,150.00                     | 8,823.77            | 9,143.40            | 8,829.42            | 33.10           | 33.20       | 89.29                 | -822.11                           | 307.41     | 1,840.51             | 1,774.53              | 65.97                   | 27.897            |                    |         |
| 9,200.00                     | 8,831.47            | 9,185.44            | 8,840.90            | 33.34           | 33.61       | 89.61                 | -820.57                           | 347.81     | 1,838.89             | 1,772.21              | 66.68                   | 27.579            |                    |         |
| 9,250.00                     | 8,834.84            | 9,243.45            | 8,853.83            | 33.60           | 34.24       | 90.06                 | -818.46                           | 404.32     | 1,837.33             | 1,769.70              | 67.64                   | 27.165            |                    |         |
| 9,263.62                     | 8,835.00            | 9,259.66            | 8,857.05            | 33.67           | 34.43       | 90.20                 | -817.79                           | 420.19     | 1,836.84             | 1,768.93              | 67.92                   | 27.046            |                    |         |
| 9,300.00                     | 8,835.00            | 9,316.09            | 8,866.57            | 33.88           | 35.13       | 90.50                 | -815.25                           | 475.75     | 1,835.48             | 1,766.60              | 68.88                   | 26.648            |                    |         |
| 9,400.00                     | 8,835.00            | 9,464.13            | 8,881.12            | 34.53           | 37.24       | 90.96                 | -804.39                           | 622.64     | 1,828.50             | 1,756.78              | 71.72                   | 25.494            |                    |         |
| 9,500.00                     | 8,835.00            | 9,542.56            | 8,886.55            | 35.30           | 38.49       | 91.14                 | -798.49                           | 700.66     | 1,821.71             | 1,747.95              | 73.76                   | 24.697            |                    |         |
| 9,600.00                     | 8,835.00            | 9,619.52            | 8,890.89            | 36.17           | 39.79       | 91.28                 | -793.83                           | 777.36     | 1,816.35             | 1,740.40              | 75.95                   | 23.916            |                    |         |
| 9,700.00                     | 8,835.00            | 9,695.63            | 8,893.97            | 37.13           | 41.15       | 91.38                 | -790.03                           | 853.31     | 1,812.08             | 1,733.81              | 78.26                   | 23.153            |                    |         |
| 9,800.00                     | 8,835.00            | 9,756.49            | 8,895.34            | 38.18           | 42.28       | 91.42                 | -788.17                           | 914.12     | 1,809.67             | 1,729.25              | 80.42                   | 22.504            |                    |         |
| 9,900.00                     | 8,835.00            | 9,840.09            | 8,896.17            | 39.31           | 43.91       | 91.45                 | -787.09                           | 997.71     | 1,808.96             | 1,725.81              | 83.15                   | 21.755            |                    |         |
| 10,000.00                    | 8,835.00            | 9,938.78            | 8,897.33            | 40.51           | 45.90       | 91.48                 | -786.15                           | 1,096.39   | 1,808.63             | 1,722.28              | 86.36                   | 20.944            |                    |         |
| 10,067.49                    | 8,835.00            | 9,999.98            | 8,898.31            | 41.36           | 47.18       | 91.51                 | -785.60                           | 1,157.58   | 1,808.47             | 1,719.98              | 88.49                   | 20.437            |                    |         |
| 10,100.00                    | 8,835.00            | 10,027.53           | 8,898.59            | 41.78           | 47.77       | 91.52                 | -785.47                           | 1,185.13   | 1,808.51             | 1,719.03              | 89.48                   | 20.211            |                    |         |
| 10,200.00                    | 8,835.00            | 10,158.81           | 8,898.97            | 43.10           | 50.63       | 91.54                 | -784.38                           | 1,316.40   | 1,808.40             | 1,714.67              | 93.73                   | 19.294            |                    |         |
| 10,300.00                    | 8,835.00            | 10,273.05           | 8,899.33            | 44.49           | 53.22       | 91.55                 | -781.66                           | 1,430.61   | 1,806.64             | 1,708.91              | 97.73                   | 18.486            |                    |         |
| 10,400.00                    | 8,835.00            | 10,385.08           | 8,900.19            | 45.92           | 55.82       | 91.58                 | -777.88                           | 1,542.57   | 1,803.86             | 1,702.07              | 101.79                  | 17.721            |                    |         |
| 10,500.00                    | 8,835.00            | 10,477.79           | 8,902.36            | 47.39           | 58.03       | 91.65                 | -774.72                           | 1,635.20   | 1,801.11             | 1,695.65              | 105.47                  | 17.078            |                    |         |
| 10,600.00                    | 8,835.00            | 10,572.24           | 8,904.21            | 48.91           | 60.31       | 91.71                 | -771.96                           | 1,729.59   | 1,798.84             | 1,689.58              | 109.26                  | 16.463            |                    |         |
| 10,700.00                    | 8,835.00            | 10,680.78           | 8,908.41            | 50.47           | 62.97       | 91.85                 | -768.63                           | 1,838.00   | 1,796.50             | 1,683.00              | 113.51                  | 15.827            |                    |         |
| 10,800.00                    | 8,835.00            | 10,789.19           | 8,913.27            | 52.06           | 65.67       | 92.01                 | -764.59                           | 1,946.23   | 1,793.51             | 1,675.70              | 117.81                  | 15.223            |                    |         |
| 10,900.00                    | 8,835.00            | 10,897.25           | 8,917.56            | 53.68           | 68.39       | 92.15                 | -760.20                           | 2,054.11   | 1,790.19             | 1,668.02              | 122.17                  | 14.653            |                    |         |
| 11,000.00                    | 8,835.00            | 10,988.65           | 8,920.27            | 55.32           | 70.71       | 92.24                 | -756.41                           | 2,145.38   | 1,786.76             | 1,660.62              | 126.14                  | 14.165            |                    |         |
| 11,100.00                    | 8,835.00            | 11,078.22           | 8,922.83            | 57.00           | 73.01       | 92.32                 | -753.27                           | 2,234.87   | 1,783.96             | 1,653.86              | 130.10                  | 13.713            |                    |         |
| 11,200.00                    | 8,835.00            | 11,147.07           | 8,925.31            | 58.70           | 74.79       | 92.41                 | -751.44                           | 2,303.65   | 1,782.13             | 1,648.62              | 133.51                  | 13.348            |                    |         |
| 11,233.78                    | 8,835.00            | 11,167.13           | 8,925.95            | 59.28           | 75.31       | 92.43                 | -751.22                           | 2,323.69   | 1,782.00             | 1,647.43              | 134.57                  | 13.242            |                    |         |
| 11,300.00                    | 8,835.00            | 11,210.10           | 8,927.14            | 60.41           | 76.42       | 92.46                 | -751.25                           | 2,366.65   | 1,782.49             | 1,645.74              | 136.75                  | 13.035            |                    |         |
| 11,400.00                    | 8,835.00            | 11,314.60           | 8,930.47            | 62.15           | 79.15       | 92.57                 | -751.85                           | 2,471.09   | 1,783.81             | 1,642.57              | 141.24                  | 12.630            |                    |         |
| 11,500.00                    | 8,835.00            | 11,418.19           | 8,935.08            | 63.91           | 81.88       | 92.72                 | -751.43                           | 2,574.58   | 1,784.19             | 1,638.45              | 145.74                  | 12.243            |                    |         |
| 11,600.00                    | 8,835.00            | 11,486.00           | 8,937.44            | 65.69           | 83.67       | 92.79                 | -752.40                           | 2,642.34   | 1,786.23             | 1,637.07              | 149.16                  | 11.975            |                    |         |
| 11,700.00                    | 8,835.00            | 11,586.79           | 8,939.35            | 67.47           | 86.34       | 92.85                 | -754.79                           | 2,743.08   | 1,789.29             | 1,635.66              | 153.63                  | 11.646            |                    |         |
| 11,800.00                    | 8,835.00            | 11,676.29           | 8,939.84            | 69.28           | 88.72       | 92.86                 | -756.87                           | 2,832.55   | 1,792.24             | 1,634.47              | 157.77                  | 11.360            |                    |         |
| 11,900.00                    | 8,835.00            | 11,818.72           | 8,940.02            | 71.09           | 92.54       | 92.86                 | -758.98                           | 2,974.96   | 1,794.35             | 1,630.75              | 163.60                  | 10.968            |                    |         |
| 12,000.00                    | 8,835.00            | 11,971.04           | 8,937.59            | 72.92           | 96.64       | 92.78                 | -757.25                           | 3,127.25   | 1,793.72             | 1,624.07              | 169.66                  | 10.573            |                    |         |
| 12,100.00                    | 8,835.00            | 12,051.10           | 8,936.10            | 74.76           | 98.80       | 92.74                 | -755.74                           | 3,207.28   | 1,792.32             | 1,618.70              | 173.62                  | 10.323            |                    |         |
| 12,200.00                    | 8,835.00            | 12,141.04           | 8,935.05            | 76.61           | 101.24      | 92.71                 | -754.65                           | 3,297.20   | 1,791.65             | 1,613.76              | 177.88                  | 10.072            |                    |         |
| 12,300.00                    | 8,835.00            | 12,245.23           | 8,933.44            | 78.47           | 104.07      | 92.65                 | -753.61                           | 3,401.37   | 1,791.18             | 1,608.59              | 182.58                  | 9.810             |                    |         |
| 12,400.00                    | 8,835.00            | 12,366.73           | 8,932.52            | 80.34           | 107.39      | 92.63                 | -751.22                           | 3,522.85   | 1,789.73             | 1,601.92              | 187.81                  | 9.530             |                    |         |
| 12,500.00                    | 8,835.00            | 12,456.10           | 8,933.51            | 82.22           | 109.83      | 92.66                 | -749.21                           | 3,612.19   | 1,788.15             | 1,596.04              | 192.10                  | 9.308             |                    |         |
| 12,600.00                    | 8,835.00            | 12,539.02           | 8,935.53            | 84.11           | 112.10      | 92.73                 | -748.00                           | 3,695.07   | 1,787.39             | 1,591.18              | 196.21                  | 9.109             |                    |         |
| 12,651.16                    | 8,835.00            | 12,585.03           | 8,936.77            | 85.08           | 113.37      | 92.77                 | -747.60                           | 3,741.06   | 1,787.32             | 1,588.89              | 198.43                  | 9.007             |                    |         |
| 12,700.00                    | 8,835.00            | 12,629.08           | 8,937.79            | 86.00           | 114.58      | 92.80                 | -747.35                           | 3,785.10   | 1,787.39             | 1,586.84              | 200.54                  | 8.913             |                    |         |
| 12,800.00                    | 8,835.00            | 12,724.75           | 8,939.90            | 87.90           | 117.21      | 92.87                 | -747.08                           | 3,880.74   | 1,787.81             | 1,582.75              | 205.06                  | 8.719             |                    |         |
| 12,900.00                    | 8,835.00            | 12,859.84           | 8,944.34            | 89.81           | 120.93      | 93.01                 | -745.02                           | 4,015.74   | 1,786.94             | 1,576.17              | 210.77                  | 8.478             |                    |         |
| 13,000.00                    | 8,835.00            | 12,970.44           | 8,949.41            | 91.72           | 123.99      | 93.18                 | -742.30                           | 4,126.19   | 1,785.33             | 1,569.60              | 215.74                  | 8.275             |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 431-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 13,100.00                    | 8,835.00            | 13,068.80           | 8,953.78            | 93.64           | 126.71      | 93.32                 | -739.32                           | 4,224.41   | 1,783.16             | 1,562.81              | 220.36                  | 8.092             |                    |         |
| 13,200.00                    | 8,835.00            | 13,154.50           | 8,956.15            | 95.56           | 129.08      | 93.40                 | -737.32                           | 4,310.05   | 1,781.59             | 1,556.98              | 224.61                  | 7.932             |                    |         |
| 13,300.00                    | 8,835.00            | 13,255.74           | 8,956.61            | 97.49           | 131.89      | 93.42                 | -735.76                           | 4,411.28   | 1,780.68             | 1,551.34              | 229.34                  | 7.764             |                    |         |
| 13,400.00                    | 8,835.00            | 13,364.48           | 8,956.16            | 99.42           | 134.90      | 93.41                 | -733.46                           | 4,519.99   | 1,779.13             | 1,544.83              | 234.30                  | 7.593             |                    |         |
| 13,500.00                    | 8,835.00            | 13,459.45           | 8,956.37            | 101.36          | 137.54      | 93.41                 | -731.35                           | 4,614.93   | 1,777.52             | 1,538.66              | 238.87                  | 7.442             |                    |         |
| 13,600.00                    | 8,835.00            | 13,557.93           | 8,958.74            | 103.30          | 140.29      | 93.49                 | -729.31                           | 4,713.36   | 1,776.20             | 1,532.67              | 243.53                  | 7.294             |                    |         |
| 13,700.00                    | 8,835.00            | 13,651.69           | 8,960.97            | 105.25          | 142.90      | 93.57                 | -727.50                           | 4,807.08   | 1,775.01             | 1,526.95              | 248.06                  | 7.156             |                    |         |
| 13,800.00                    | 8,835.00            | 13,758.46           | 8,963.57            | 107.20          | 145.88      | 93.65                 | -725.55                           | 4,913.80   | 1,773.95             | 1,520.97              | 252.98                  | 7.012             |                    |         |
| 13,900.00                    | 8,835.00            | 13,858.68           | 8,967.31            | 109.15          | 148.67      | 93.78                 | -723.32                           | 5,013.92   | 1,772.56             | 1,514.85              | 257.71                  | 6.878             |                    |         |
| 13,992.03                    | 8,835.00            | 13,926.62           | 8,969.74            | 110.95          | 150.57      | 93.86                 | -722.25                           | 5,081.81   | 1,771.89             | 1,510.57              | 261.32                  | 6.781             |                    |         |
| 14,000.00                    | 8,835.00            | 13,932.36           | 8,969.92            | 111.10          | 150.73      | 93.86                 | -722.21                           | 5,087.54   | 1,771.89             | 1,510.27              | 261.62                  | 6.773             |                    |         |
| 14,100.00                    | 8,835.00            | 14,026.70           | 8,972.58            | 113.06          | 153.37      | 93.95                 | -721.97                           | 5,181.85   | 1,772.41             | 1,506.23              | 266.18                  | 6.659             |                    |         |
| 14,200.00                    | 8,835.00            | 14,131.20           | 8,975.26            | 115.03          | 156.30      | 94.04                 | -721.47                           | 5,286.31   | 1,772.71             | 1,501.65              | 271.06                  | 6.540             |                    |         |
| 14,300.00                    | 8,835.00            | 14,248.46           | 8,978.03            | 116.99          | 159.59      | 94.13                 | -720.31                           | 5,403.53   | 1,772.49             | 1,496.15              | 276.35                  | 6.414             |                    |         |
| 14,400.00                    | 8,835.00            | 14,352.07           | 8,980.49            | 118.96          | 162.49      | 94.21                 | -718.65                           | 5,507.10   | 1,771.67             | 1,490.47              | 281.20                  | 6.300             |                    |         |
| 14,500.00                    | 8,835.00            | 14,461.70           | 8,982.93            | 120.93          | 165.57      | 94.29                 | -716.24                           | 5,616.68   | 1,770.22             | 1,483.98              | 286.23                  | 6.184             |                    |         |
| 14,600.00                    | 8,835.00            | 14,555.01           | 8,984.93            | 122.90          | 168.19      | 94.36                 | -714.44                           | 5,709.95   | 1,769.04             | 1,478.25              | 290.79                  | 6.084             |                    |         |
| 14,700.00                    | 8,835.00            | 14,660.76           | 8,987.58            | 124.88          | 171.16      | 94.45                 | -712.01                           | 5,815.64   | 1,767.52             | 1,471.81              | 295.71                  | 5.977             |                    |         |
| 14,800.00                    | 8,835.00            | 14,739.12           | 8,989.46            | 126.86          | 173.36      | 94.51                 | -710.55                           | 5,893.96   | 1,766.49             | 1,466.68              | 299.81                  | 5.892             |                    |         |
| 14,810.39                    | 8,835.00            | 14,745.28           | 8,989.61            | 127.06          | 173.53      | 94.52                 | -710.50                           | 5,900.12   | 1,766.48             | 1,466.31              | 300.17                  | 5.885             |                    |         |
| 14,900.00                    | 8,835.00            | 14,798.37           | 8,990.97            | 128.84          | 175.03      | 94.56                 | -710.62                           | 5,953.20   | 1,767.41             | 1,464.19              | 303.22                  | 5.829             |                    |         |
| 15,000.00                    | 8,835.00            | 14,901.65           | 8,993.52            | 130.82          | 177.94      | 94.64                 | -712.20                           | 6,056.42   | 1,769.73             | 1,461.63              | 308.10                  | 5.744             |                    |         |
| 15,100.00                    | 8,835.00            | 15,008.54           | 8,995.53            | 132.80          | 180.95      | 94.70                 | -713.18                           | 6,163.29   | 1,771.40             | 1,458.28              | 313.11                  | 5.657             |                    |         |
| 15,200.00                    | 8,835.00            | 15,099.30           | 8,997.20            | 134.79          | 183.51      | 94.75                 | -714.12                           | 6,254.04   | 1,773.17             | 1,455.60              | 317.57                  | 5.584             |                    |         |
| 15,300.00                    | 8,835.00            | 15,216.64           | 9,000.03            | 136.78          | 186.82      | 94.83                 | -715.01                           | 6,371.34   | 1,774.73             | 1,451.79              | 322.94                  | 5.496             |                    |         |
| 15,400.00                    | 8,835.00            | 15,333.05           | 9,003.09            | 138.76          | 190.10      | 94.93                 | -714.62                           | 6,487.70   | 1,775.19             | 1,446.95              | 328.24                  | 5.408             |                    |         |
| 15,500.00                    | 8,835.00            | 15,445.49           | 9,006.95            | 140.76          | 193.28      | 95.06                 | -713.43                           | 6,600.07   | 1,775.04             | 1,441.65              | 333.39                  | 5.324             |                    |         |
| 15,600.00                    | 8,835.00            | 15,549.09           | 9,009.56            | 142.75          | 196.20      | 95.14                 | -711.75                           | 6,703.63   | 1,774.24             | 1,435.97              | 338.27                  | 5.245             |                    |         |
| 15,700.00                    | 8,835.00            | 15,643.05           | 9,011.77            | 144.74          | 198.85      | 95.22                 | -710.39                           | 6,797.55   | 1,773.60             | 1,430.75              | 342.86                  | 5.173             |                    |         |
| 15,800.00                    | 8,835.00            | 15,777.48           | 9,016.67            | 146.74          | 202.65      | 95.38                 | -707.47                           | 6,931.84   | 1,772.43             | 1,423.83              | 348.60                  | 5.084             |                    |         |
| 15,900.00                    | 8,835.00            | 15,874.12           | 9,021.29            | 148.73          | 205.37      | 95.54                 | -704.09                           | 7,028.30   | 1,769.99             | 1,416.75              | 353.24                  | 5.011             |                    |         |
| 16,000.00                    | 8,835.00            | 15,942.81           | 9,023.01            | 150.73          | 207.31      | 95.60                 | -702.62                           | 7,096.96   | 1,768.70             | 1,411.61              | 357.09                  | 4.953 Alert       |                    |         |
| 16,038.62                    | 8,835.00            | 15,974.17           | 9,023.31            | 151.50          | 208.20      | 95.61                 | -702.36                           | 7,128.32   | 1,768.64             | 1,409.93              | 358.71                  | 4.931 Alert       |                    |         |
| 16,100.00                    | 8,835.00            | 16,028.78           | 9,023.64            | 152.73          | 209.74      | 95.62                 | -702.10                           | 7,182.92   | 1,768.75             | 1,407.32              | 361.44                  | 4.894 Alert       |                    |         |
| 16,200.00                    | 8,835.00            | 16,115.36           | 9,023.86            | 154.73          | 212.19      | 95.62                 | -702.21                           | 7,269.50   | 1,769.50             | 1,403.71              | 365.79                  | 4.837 Alert       |                    |         |
| 16,300.00                    | 8,835.00            | 16,229.24           | 9,023.68            | 156.73          | 215.41      | 95.61                 | -702.67                           | 7,383.38   | 1,770.51             | 1,399.43              | 371.08                  | 4.771 Alert       |                    |         |
| 16,400.00                    | 8,835.00            | 16,318.56           | 9,023.09            | 158.74          | 217.94      | 95.59                 | -702.70                           | 7,472.69   | 1,771.08             | 1,395.54              | 375.55                  | 4.716 Alert       |                    |         |
| 16,500.00                    | 8,835.00            | 16,445.95           | 9,021.77            | 160.74          | 221.55      | 95.55                 | -702.41                           | 7,600.08   | 1,771.37             | 1,390.10              | 381.27                  | 4.646 Alert       |                    |         |
| 16,600.00                    | 8,835.00            | 16,548.65           | 9,020.71            | 162.74          | 224.46      | 95.52                 | -701.04                           | 7,702.76   | 1,770.53             | 1,384.34              | 386.19                  | 4.585 Alert       |                    |         |
| 16,676.35                    | 8,835.00            | 16,611.94           | 9,020.55            | 164.28          | 226.25      | 95.51                 | -700.44                           | 7,766.05   | 1,770.25             | 1,380.79              | 389.46                  | 4.545 Alert       |                    |         |
| 16,700.00                    | 8,835.00            | 16,633.29           | 9,020.63            | 164.75          | 226.86      | 95.51                 | -700.33                           | 7,787.40   | 1,770.27             | 1,379.74              | 390.53                  | 4.533 Alert       |                    |         |
| 16,800.00                    | 8,835.00            | 16,727.53           | 9,022.04            | 166.76          | 229.53      | 95.56                 | -699.94                           | 7,881.63   | 1,770.59             | 1,375.45              | 395.14                  | 4.481 Alert       |                    |         |
| 16,900.00                    | 8,835.00            | 16,829.13           | 9,024.46            | 168.77          | 232.41      | 95.64                 | -699.51                           | 7,983.19   | 1,771.00             | 1,371.02              | 399.98                  | 4.428 Alert       |                    |         |
| 17,000.00                    | 8,835.00            | 16,931.00           | 9,026.50            | 170.77          | 235.30      | 95.70                 | -699.05                           | 8,085.04   | 1,771.34             | 1,366.51              | 404.83                  | 4.376 Alert       |                    |         |
| 17,100.00                    | 8,835.00            | 17,032.76           | 9,028.36            | 172.78          | 238.19      | 95.76                 | -698.40                           | 8,186.79   | 1,771.48             | 1,361.80              | 409.68                  | 4.324 Alert       |                    |         |
| 17,200.00                    | 8,835.00            | 17,129.02           | 9,031.23            | 174.79          | 240.92      | 95.85                 | -697.83                           | 8,283.01   | 1,771.78             | 1,357.44              | 414.34                  | 4.276 Alert       |                    |         |
| 17,300.00                    | 8,835.00            | 17,228.74           | 9,034.22            | 176.81          | 243.75      | 95.95                 | -697.32                           | 8,382.68   | 1,772.18             | 1,353.08              | 419.10                  | 4.229 Alert       |                    |         |
| 17,400.00                    | 8,835.00            | 17,331.23           | 9,037.19            | 178.82          | 246.65      | 96.05                 | -696.76                           | 8,485.12   | 1,772.53             | 1,348.58              | 423.96                  | 4.181 Alert       |                    |         |
| 17,500.00                    | 8,835.00            | 17,437.49           | 9,039.92            | 180.83          | 249.67      | 96.13                 | -695.95                           | 8,591.34   | 1,772.64             | 1,343.70              | 428.93                  | 4.133 Alert       |                    |         |
| 17,600.00                    | 8,835.00            | 17,542.19           | 9,042.23            | 182.84          | 252.64      | 96.21                 | -694.81                           | 8,696.01   | 1,772.38             | 1,338.52              | 433.86                  | 4.085 Alert       |                    |         |
| 17,700.00                    | 8,835.00            | 17,656.30           | 9,044.14            | 184.86          | 255.88      | 96.28                 | -693.13                           | 8,810.09   | 1,771.70             | 1,332.63              | 439.08                  | 4.035 Alert       |                    |         |
| 17,800.00                    | 8,835.00            | 17,742.89           | 9,044.45            | 186.87          | 258.34      | 96.29                 | -691.86                           | 8,896.67   | 1,770.88             | 1,327.39              | 443.49                  | 3.993 Alert       |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                        |                        |                        |                   |                |                          |                                         |               |                         | Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 335H - Wellbore #1 - Wellbore #1 |                            |                   |           | Offset Site Error: |  | 0.00 ft |
|------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|-----------------------------------------|---------------|-------------------------|------------------------------------------------------------------------------------|----------------------------|-------------------|-----------|--------------------|--|---------|
| Survey Program: 431-MWD+HDGM |                        |                        |                        |                   |                |                          |                                         |               |                         |                                                                                    |                            |                   |           | Offset Well Error: |  | 0.50 ft |
| Reference                    |                        | Offset                 |                        | Semi Major Axis   |                |                          | Distance                                |               |                         |                                                                                    |                            |                   |           | Warning            |  |         |
| Measured Depth<br>(ft)       | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between Centres<br>(ft) | Between Ellipses<br>(ft)                                                           | Minimum Separation<br>(ft) | Separation Factor |           |                    |  |         |
| 17,846.51                    | 8,835.00               | 17,782.40              | 9,044.04               | 187.81            | 259.46         | 96.27                    | -691.59                                 | 8,936.17      | 1,770.79                | 1,325.26                                                                           | 445.53                     | 3.975             | Alert     |                    |  |         |
| 17,900.00                    | 8,835.00               | 17,827.92              | 9,043.52               | 188.89            | 260.75         | 96.26                    | -691.48                                 | 8,981.70      | 1,770.91                | 1,323.05                                                                           | 447.86                     | 3.954             | Alert     |                    |  |         |
| 18,000.00                    | 8,835.00               | 17,930.23              | 9,043.45               | 190.91            | 263.66         | 96.25                    | -691.42                                 | 9,084.00      | 1,771.44                | 1,318.67                                                                           | 452.77                     | 3.912             | Alert     |                    |  |         |
| 18,100.00                    | 8,835.00               | 18,025.63              | 9,046.07               | 192.92            | 266.37         | 96.34                    | -690.93                                 | 9,179.36      | 1,771.82                | 1,314.43                                                                           | 457.40                     | 3.874             | Alert     |                    |  |         |
| 18,200.00                    | 8,835.00               | 18,141.29              | 9,049.90               | 194.94            | 269.66         | 96.46                    | -690.10                                 | 9,294.96      | 1,772.09                | 1,309.43                                                                           | 462.66                     | 3.830             | Alert     |                    |  |         |
| 18,238.14                    | 8,835.00               | 18,174.15              | 9,050.88               | 195.71            | 270.59         | 96.49                    | -689.75                                 | 9,327.80      | 1,772.04                | 1,307.74                                                                           | 464.31                     | 3.817             | Alert     |                    |  |         |
| 18,300.00                    | 8,835.00               | 18,228.90              | 9,052.31               | 196.96            | 272.15         | 96.54                    | -689.37                                 | 9,382.53      | 1,772.17                | 1,305.14                                                                           | 467.03                     | 3.795             | Alert     |                    |  |         |
| 18,400.00                    | 8,835.00               | 18,323.96              | 9,054.35               | 198.98            | 274.85         | 96.60                    | -689.10                                 | 9,477.57      | 1,772.72                | 1,301.06                                                                           | 471.65                     | 3.759             | Alert     |                    |  |         |
| 18,500.00                    | 8,835.00               | 18,440.27              | 9,056.06               | 201.00            | 278.16         | 96.66                    | -688.49                                 | 9,593.86      | 1,772.96                | 1,295.98                                                                           | 476.98                     | 3.717             | Alert     |                    |  |         |
| 18,501.74                    | 8,835.00               | 18,442.31              | 9,056.08               | 201.03            | 278.22         | 96.66                    | -688.47                                 | 9,595.90      | 1,772.96                | 1,295.88                                                                           | 477.08                     | 3.716             | Alert     |                    |  |         |
| 18,600.00                    | 8,835.00               | 18,525.42              | 9,056.23               | 203.02            | 280.58         | 96.66                    | -688.32                                 | 9,679.01      | 1,773.35                | 1,292.02                                                                           | 481.33                     | 3.684             | Alert     |                    |  |         |
| 18,700.00                    | 8,835.00               | 18,642.30              | 9,055.39               | 205.04            | 283.91         | 96.64                    | -687.57                                 | 9,795.88      | 1,773.17                | 1,286.44                                                                           | 486.74                     | 3.643             | Alert     |                    |  |         |
| 18,741.49                    | 8,835.00               | 18,677.56              | 9,055.27               | 205.88            | 284.91         | 96.63                    | -687.31                                 | 9,831.15      | 1,773.10                | 1,284.55                                                                           | 488.55                     | 3.629             | Alert     |                    |  |         |
| 18,800.00                    | 8,835.00               | 18,735.48              | 9,055.47               | 207.06            | 286.56         | 96.64                    | -687.03                                 | 9,889.06      | 1,773.19                | 1,281.84                                                                           | 491.36                     | 3.609             | Alert     |                    |  |         |
| 18,900.00                    | 8,835.00               | 18,857.16              | 9,057.47               | 209.08            | 290.02         | 96.71                    | -685.38                                 | 10,010.71     | 1,772.63                | 1,275.82                                                                           | 496.80                     | 3.568             | Alert     |                    |  |         |
| 19,000.00                    | 8,835.00               | 18,958.15              | 9,059.05               | 211.10            | 292.89         | 96.76                    | -683.15                                 | 10,111.66     | 1,771.20                | 1,269.58                                                                           | 501.62                     | 3.531             | Alert     |                    |  |         |
| 19,100.00                    | 8,835.00               | 19,061.69              | 9,060.60               | 213.12            | 295.83         | 96.82                    | -681.10                                 | 10,215.17     | 1,770.01                | 1,263.50                                                                           | 506.51                     | 3.495             | Alert     |                    |  |         |
| 19,200.00                    | 8,835.00               | 19,164.73              | 9,062.04               | 215.15            | 298.76         | 96.87                    | -678.66                                 | 10,318.18     | 1,768.42                | 1,257.03                                                                           | 511.39                     | 3.458             | Alert     |                    |  |         |
| 19,221.83                    | 8,835.00               | 19,158.00              | 9,061.95               | 215.59            | 298.57         | 96.87                    | -678.82                                 | 10,311.45     | 1,768.30                | 1,256.71                                                                           | 511.59                     | 3.456             | Alert, ES |                    |  |         |
| 19,308.27                    | 8,835.00               | 19,158.00              | 9,061.95               | 217.34            | 298.57         | 96.87                    | -678.82                                 | 10,311.45     | 1,770.41                | 1,258.04                                                                           | 512.37                     | 3.455             | Alert, SF |                    |  |         |



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Site Error: | 0.00 ft |
|---------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 438-MWD+HDGM, 9290-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Well Error: | 0.50 ft |
| Reference                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                    | Warning |
| Measured Depth (ft)                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor  |         |
| 0.00                                        | 0.00                | 13.82               | 13.82               | 0.50            | 0.50        | -176.46               | -1,723.38                         | -106.64    | 1,726.67             |                       |                         |                    |         |
| 100.00                                      | 100.00              | 110.43              | 110.42              | 0.52            | 0.53        | -176.46               | -1,723.51                         | -106.51    | 1,726.80             | 1,725.75              | 1.05                    | 1,642.168          |         |
| 200.00                                      | 200.00              | 207.03              | 207.03              | 0.70            | 0.61        | -176.47               | -1,723.84                         | -106.20    | 1,727.12             | 1,725.81              | 1.31                    | 1,315.798          |         |
| 300.00                                      | 300.00              | 303.64              | 303.63              | 0.99            | 0.72        | -176.49               | -1,724.37                         | -105.69    | 1,727.64             | 1,725.94              | 1.70                    | 1,013.764          |         |
| 400.00                                      | 400.00              | 400.24              | 400.23              | 1.31            | 0.84        | -176.52               | -1,725.11                         | -104.99    | 1,728.36             | 1,726.20              | 2.15                    | 803.605            |         |
| 500.00                                      | 500.00              | 496.20              | 496.18              | 1.65            | 1.07        | -176.55               | -1,726.05                         | -104.13    | 1,729.28             | 1,726.56              | 2.72                    | 635.910            |         |
| 600.00                                      | 600.00              | 595.87              | 595.84              | 1.99            | 1.40        | -176.58               | -1,727.19                         | -103.24    | 1,730.38             | 1,726.99              | 3.39                    | 510.419            |         |
| 700.00                                      | 700.00              | 693.41              | 693.37              | 2.34            | 1.73        | -176.60               | -1,728.32                         | -102.62    | 1,731.49             | 1,727.42              | 4.07                    | 425.483            |         |
| 800.00                                      | 800.00              | 792.24              | 792.19              | 2.69            | 2.07        | -176.62               | -1,729.58                         | -102.17    | 1,732.74             | 1,727.98              | 4.76                    | 363.894            |         |
| 900.00                                      | 900.00              | 894.25              | 894.19              | 3.04            | 2.43        | -176.64               | -1,730.88                         | -101.51    | 1,733.97             | 1,728.49              | 5.47                    | 316.939            |         |
| 1,000.00                                    | 1,000.00            | 989.96              | 989.88              | 3.40            | 2.77        | -176.68               | -1,732.21                         | -100.60    | 1,735.30             | 1,729.14              | 6.16                    | 281.618            |         |
| 1,100.00                                    | 1,100.00            | 1,112.58            | 1,112.50            | 3.75            | 3.19        | -176.73               | -1,733.31                         | -99.14     | 1,736.14             | 1,729.20              | 6.94                    | 250.077            |         |
| 1,200.00                                    | 1,200.00            | 1,232.14            | 1,232.04            | 4.11            | 3.59        | -176.70               | -1,732.57                         | -99.90     | 1,735.54             | 1,727.85              | 7.69                    | 225.604            |         |
| 1,300.00                                    | 1,300.00            | 1,343.65            | 1,343.52            | 4.46            | 3.95        | -176.62               | -1,730.92                         | -102.28    | 1,734.19             | 1,725.77              | 8.41                    | 206.129            |         |
| 1,400.00                                    | 1,400.00            | 1,443.47            | 1,443.28            | 4.82            | 4.29        | -176.52               | -1,729.04                         | -105.09    | 1,732.47             | 1,723.37              | 9.10                    | 190.312            |         |
| 1,500.00                                    | 1,500.00            | 1,532.13            | 1,531.89            | 5.18            | 4.59        | -176.44               | -1,727.71                         | -107.50    | 1,731.15             | 1,721.38              | 9.76                    | 177.358            |         |
| 1,600.00                                    | 1,600.00            | 1,630.29            | 1,630.02            | 5.53            | 4.92        | -176.35               | -1,726.61                         | -110.19    | 1,730.20             | 1,719.74              | 10.45                   | 165.516            |         |
| 1,700.00                                    | 1,700.00            | 1,732.81            | 1,732.49            | 5.89            | 5.27        | -176.25               | -1,725.44                         | -112.99    | 1,729.24             | 1,718.07              | 11.16                   | 154.903            |         |
| 1,800.00                                    | 1,800.00            | 1,837.77            | 1,837.40            | 6.25            | 5.64        | -176.15               | -1,723.98                         | -115.93    | 1,728.02             | 1,716.14              | 11.88                   | 145.412            |         |
| 1,900.00                                    | 1,900.00            | 1,936.31            | 1,935.89            | 6.61            | 5.98        | -176.06               | -1,722.45                         | -118.48    | 1,726.65             | 1,714.07              | 12.58                   | 137.213            |         |
| 2,000.00                                    | 2,000.00            | 2,029.15            | 2,028.70            | 6.96            | 6.30        | -175.99               | -1,721.35                         | -120.74    | 1,725.64             | 1,712.38              | 13.27                   | 130.081            |         |
| 2,044.39                                    | 2,044.39            | 2,071.95            | 2,071.49            | 7.12            | 6.45        | -163.17               | -1,720.94                         | -121.80    | 1,725.46             | 1,711.88              | 13.57                   | 127.110 CC         |         |
| 2,100.00                                    | 2,099.99            | 2,126.07            | 2,125.58            | 7.32            | 6.64        | -163.13               | -1,720.47                         | -123.20    | 1,725.74             | 1,711.78              | 13.96                   | 123.592 ES         |         |
| 2,200.00                                    | 2,199.96            | 2,225.52            | 2,224.99            | 7.68            | 6.99        | -163.06               | -1,719.66                         | -125.99    | 1,727.64             | 1,712.97              | 14.67                   | 117.761            |         |
| 2,300.00                                    | 2,299.86            | 2,327.71            | 2,327.14            | 8.04            | 7.35        | -162.99               | -1,718.74                         | -128.89    | 1,731.13             | 1,715.74              | 15.39                   | 112.495            |         |
| 2,400.00                                    | 2,399.68            | 2,431.14            | 2,430.53            | 8.39            | 7.72        | -162.94               | -1,717.66                         | -131.82    | 1,736.13             | 1,720.02              | 16.11                   | 107.760            |         |
| 2,500.00                                    | 2,499.37            | 2,533.13            | 2,532.46            | 8.75            | 8.08        | -162.89               | -1,716.36                         | -134.91    | 1,742.59             | 1,725.76              | 16.83                   | 103.543            |         |
| 2,600.00                                    | 2,598.90            | 2,629.83            | 2,629.10            | 9.11            | 8.42        | -162.86               | -1,715.14                         | -137.85    | 1,750.73             | 1,733.20              | 17.53                   | 99.869             |         |
| 2,700.00                                    | 2,698.26            | 2,725.07            | 2,724.30            | 9.46            | 8.76        | -162.84               | -1,714.19                         | -140.72    | 1,760.78             | 1,742.56              | 18.23                   | 96.609             |         |
| 2,800.00                                    | 2,797.40            | 2,829.98            | 2,829.15            | 9.82            | 9.13        | -162.84               | -1,713.11                         | -143.67    | 1,772.44             | 1,753.49              | 18.96                   | 93.502             |         |
| 2,900.00                                    | 2,896.30            | 2,928.23            | 2,927.35            | 10.18           | 9.48        | -162.84               | -1,711.94                         | -146.60    | 1,785.63             | 1,765.96              | 19.66                   | 90.808             |         |
| 3,000.00                                    | 2,994.93            | 2,999.57            | 2,998.66            | 10.54           | 9.74        | -162.84               | -1,711.72                         | -148.55    | 1,801.28             | 1,781.01              | 20.27                   | 88.854             |         |
| 3,100.00                                    | 3,093.26            | 3,083.97            | 3,083.05            | 10.90           | 10.04       | -162.88               | -1,712.49                         | -150.29    | 1,819.75             | 1,798.83              | 20.93                   | 86.962             |         |
| 3,195.07                                    | 3,186.42            | 3,173.91            | 3,172.96            | 11.24           | 10.36       | -162.93               | -1,713.70                         | -152.18    | 1,839.25             | 1,817.66              | 21.58                   | 85.216             |         |
| 3,200.00                                    | 3,191.25            | 3,178.73            | 3,177.78            | 11.26           | 10.37       | -162.94               | -1,713.77                         | -152.28    | 1,840.30             | 1,818.68              | 21.62                   | 85.126             |         |
| 3,300.00                                    | 3,289.08            | 3,264.08            | 3,263.10            | 11.62           | 10.67       | -163.06               | -1,715.16                         | -153.63    | 1,861.85             | 1,839.58              | 22.27                   | 83.604             |         |
| 3,400.00                                    | 3,386.91            | 3,346.36            | 3,345.36            | 11.98           | 10.96       | -163.23               | -1,717.31                         | -153.35    | 1,884.24             | 1,861.33              | 22.90                   | 82.264             |         |
| 3,500.00                                    | 3,484.74            | 3,475.17            | 3,474.10            | 12.35           | 11.40       | -163.53               | -1,720.83                         | -151.44    | 1,906.85             | 1,883.13              | 23.72                   | 80.395             |         |
| 3,600.00                                    | 3,582.58            | 3,594.64            | 3,593.55            | 12.72           | 11.80       | -163.79               | -1,721.68                         | -149.87    | 1,927.36             | 1,902.87              | 24.49                   | 78.687             |         |
| 3,700.00                                    | 3,680.41            | 3,685.05            | 3,683.95            | 13.09           | 12.11       | -163.99               | -1,722.15                         | -148.58    | 1,947.72             | 1,922.56              | 25.16                   | 77.406             |         |
| 3,800.00                                    | 3,778.24            | 3,780.71            | 3,779.61            | 13.46           | 12.44       | -164.19               | -1,722.80                         | -147.15    | 1,968.26             | 1,942.41              | 25.85                   | 76.133             |         |
| 3,900.00                                    | 3,876.08            | 3,876.81            | 3,875.69            | 13.83           | 12.77       | -164.39               | -1,723.54                         | -145.84    | 1,988.92             | 1,962.37              | 26.55                   | 74.924             |         |
| 4,000.00                                    | 3,973.91            | 3,975.50            | 3,974.37            | 14.21           | 13.11       | -164.58               | -1,724.28                         | -144.81    | 2,009.59             | 1,982.34              | 27.25                   | 73.742             |         |
| 4,100.00                                    | 4,071.74            | 4,073.90            | 4,072.76            | 14.58           | 13.45       | -164.77               | -1,725.02                         | -143.85    | 2,030.29             | 2,002.33              | 27.96                   | 72.619             |         |
| 4,200.00                                    | 4,169.57            | 4,175.37            | 4,174.23            | 14.96           | 13.80       | -164.95               | -1,725.52                         | -143.05    | 2,050.77             | 2,022.09              | 28.68                   | 71.510             |         |
| 4,300.00                                    | 4,267.41            | 4,265.69            | 4,264.55            | 15.33           | 14.11       | -165.11               | -1,726.16                         | -142.44    | 2,071.47             | 2,042.11              | 29.36                   | 70.566             |         |
| 4,400.00                                    | 4,365.24            | 4,363.96            | 4,362.82            | 15.71           | 14.46       | -165.26               | -1,727.01                         | -142.03    | 2,092.35             | 2,062.28              | 30.07                   | 69.591             |         |
| 4,500.00                                    | 4,463.07            | 4,465.86            | 4,464.70            | 16.09           | 14.82       | -165.42               | -1,727.68                         | -141.80    | 2,113.05             | 2,082.25              | 30.79                   | 68.618             |         |
| 4,600.00                                    | 4,560.90            | 4,563.06            | 4,561.91            | 16.47           | 15.16       | -165.57               | -1,728.30                         | -141.53    | 2,133.74             | 2,102.23              | 31.50                   | 67.729             |         |
| 4,700.00                                    | 4,658.74            | 4,660.46            | 4,659.31            | 16.85           | 15.50       | -165.70               | -1,728.89                         | -141.51    | 2,154.42             | 2,122.20              | 32.22                   | 66.874             |         |
| 4,800.00                                    | 4,756.57            | 4,756.75            | 4,755.59            | 17.23           | 15.84       | -165.84               | -1,729.56                         | -141.50    | 2,175.19             | 2,142.27              | 32.92                   | 66.066             |         |
| 4,900.00                                    | 4,854.40            | 4,856.71            | 4,855.55            | 17.61           | 16.19       | -165.97               | -1,730.23                         | -141.65    | 2,195.96             | 2,162.31              | 33.65                   | 65.260             |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Site Error: | 0.00 ft |
|---------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 438-MWD+HDGM, 9290-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Well Error: | 0.50 ft |
| Reference                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                    | Warning |
| Measured Depth (ft)                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor  |         |
| 5,000.00                                    | 4,952.23            | 4,946.34            | 4,945.17            | 17.99           | 16.51       | -166.08               | -1,730.78                         | -141.82    | 2,216.70             | 2,182.37              | 34.33                   | 64.569             |         |
| 5,100.00                                    | 5,050.07            | 5,027.50            | 5,026.32            | 18.37           | 16.79       | -166.16               | -1,731.94                         | -142.93    | 2,238.22             | 2,203.25              | 34.98                   | 63.995             |         |
| 5,200.00                                    | 5,147.90            | 5,126.70            | 5,125.49            | 18.75           | 17.14       | -166.24               | -1,733.54                         | -144.93    | 2,259.96             | 2,224.27              | 35.70                   | 63.306             |         |
| 5,300.00                                    | 5,245.73            | 5,222.43            | 5,221.18            | 19.14           | 17.48       | -166.31               | -1,735.11                         | -147.02    | 2,281.74             | 2,245.33              | 36.41                   | 62.672             |         |
| 5,400.00                                    | 5,343.56            | 5,317.54            | 5,316.25            | 19.52           | 17.82       | -166.37               | -1,736.75                         | -149.13    | 2,303.59             | 2,266.47              | 37.11                   | 62.067             |         |
| 5,500.00                                    | 5,441.40            | 5,412.21            | 5,410.88            | 19.90           | 18.16       | -166.43               | -1,738.52                         | -151.50    | 2,325.59             | 2,287.77              | 37.82                   | 61.492             |         |
| 5,600.00                                    | 5,539.23            | 5,508.86            | 5,507.44            | 20.29           | 18.50       | -166.45               | -1,740.33                         | -155.34    | 2,347.61             | 2,309.07              | 38.53                   | 60.922             |         |
| 5,700.00                                    | 5,637.06            | 5,598.02            | 5,596.46            | 20.67           | 18.82       | -166.45               | -1,742.18                         | -159.86    | 2,369.83             | 2,330.62              | 39.22                   | 60.432             |         |
| 5,800.00                                    | 5,734.90            | 5,684.85            | 5,683.16            | 21.05           | 19.13       | -166.45               | -1,744.39                         | -164.02    | 2,392.51             | 2,352.62              | 39.89                   | 59.985             |         |
| 5,900.00                                    | 5,832.73            | 5,784.75            | 5,782.92            | 21.44           | 19.48       | -166.46               | -1,747.05                         | -168.53    | 2,415.30             | 2,374.68              | 40.62                   | 59.465             |         |
| 6,000.00                                    | 5,930.56            | 5,882.76            | 5,880.81            | 21.83           | 19.83       | -166.47               | -1,749.61                         | -172.76    | 2,438.04             | 2,396.70              | 41.34                   | 58.974             |         |
| 6,100.00                                    | 6,028.39            | 5,981.82            | 5,979.76            | 22.21           | 20.19       | -166.49               | -1,752.16                         | -176.69    | 2,460.75             | 2,418.68              | 42.07                   | 58.492             |         |
| 6,200.00                                    | 6,126.23            | 6,089.81            | 6,087.64            | 22.60           | 20.57       | -166.52               | -1,754.75                         | -180.58    | 2,483.28             | 2,440.44              | 42.84                   | 57.964             |         |
| 6,300.00                                    | 6,224.06            | 6,196.24            | 6,193.99            | 22.98           | 20.95       | -166.55               | -1,756.65                         | -184.51    | 2,505.20             | 2,461.60              | 43.61                   | 57.451             |         |
| 6,400.00                                    | 6,321.89            | 6,286.22            | 6,283.90            | 23.37           | 21.27       | -166.58               | -1,758.34                         | -187.63    | 2,527.23             | 2,482.93              | 44.29                   | 57.057             |         |
| 6,500.00                                    | 6,419.72            | 6,370.98            | 6,368.59            | 23.76           | 21.58       | -166.61               | -1,760.26                         | -190.48    | 2,549.62             | 2,504.67              | 44.96                   | 56.715             |         |
| 6,600.00                                    | 6,517.56            | 6,454.17            | 6,451.70            | 24.14           | 21.87       | -166.64               | -1,762.66                         | -193.07    | 2,572.62             | 2,527.01              | 45.61                   | 56.406             |         |
| 6,700.00                                    | 6,615.39            | 6,549.24            | 6,546.68            | 24.53           | 22.22       | -166.68               | -1,765.64                         | -195.92    | 2,595.87             | 2,549.54              | 46.32                   | 56.041             |         |
| 6,800.00                                    | 6,713.22            | 6,643.03            | 6,640.36            | 24.92           | 22.55       | -166.71               | -1,768.71                         | -199.25    | 2,619.25             | 2,572.22              | 47.03                   | 55.697             |         |
| 6,900.00                                    | 6,811.05            | 6,753.43            | 6,750.61            | 25.30           | 22.95       | -166.72               | -1,772.24                         | -203.89    | 2,642.58             | 2,594.77              | 47.82                   | 55.266             |         |
| 7,000.00                                    | 6,908.89            | 6,878.42            | 6,875.53            | 25.69           | 23.40       | -166.78               | -1,774.93                         | -206.91    | 2,664.83             | 2,616.16              | 48.67                   | 54.749             |         |
| 7,100.00                                    | 7,006.72            | 6,986.12            | 6,983.20            | 26.08           | 23.78       | -166.86               | -1,776.65                         | -208.60    | 2,686.58             | 2,637.14              | 49.45                   | 54.334             |         |
| 7,200.00                                    | 7,104.55            | 7,087.18            | 7,084.25            | 26.47           | 24.14       | -166.94               | -1,777.92                         | -209.69    | 2,708.00             | 2,657.81              | 50.19                   | 53.958             |         |
| 7,216.87                                    | 7,121.05            | 7,100.95            | 7,098.02            | 26.53           | 24.19       | -166.95               | -1,778.10                         | -209.75    | 2,711.62             | 2,661.33              | 50.30                   | 53.913             |         |
| 7,300.00                                    | 7,202.57            | 7,228.78            | 7,225.82            | 26.85           | 24.63       | -167.18               | -1,778.31                         | -207.35    | 2,727.52             | 2,676.42              | 51.10                   | 53.379             |         |
| 7,400.00                                    | 7,301.06            | 7,307.87            | 7,304.85            | 27.23           | 24.90       | -167.36               | -1,778.32                         | -204.42    | 2,744.43             | 2,692.71              | 51.72                   | 53.065             |         |
| 7,500.00                                    | 7,399.97            | 7,389.51            | 7,386.46            | 27.61           | 25.18       | -167.51               | -1,778.88                         | -202.22    | 2,759.48             | 2,707.13              | 52.35                   | 52.714             |         |
| 7,600.00                                    | 7,499.23            | 7,488.36            | 7,485.29            | 27.98           | 25.52       | -167.64               | -1,779.87                         | -200.50    | 2,772.31             | 2,719.26              | 53.05                   | 52.255             |         |
| 7,700.00                                    | 7,598.77            | 7,588.97            | 7,585.89            | 28.34           | 25.87       | -167.74               | -1,780.87                         | -199.41    | 2,782.59             | 2,728.83              | 53.77                   | 51.754             |         |
| 7,800.00                                    | 7,698.53            | 7,688.65            | 7,685.56            | 28.70           | 26.22       | -167.80               | -1,781.83                         | -199.10    | 2,790.30             | 2,735.82              | 54.47                   | 51.224             |         |
| 7,900.00                                    | 7,798.44            | 7,780.76            | 7,777.66            | 29.05           | 26.54       | -167.84               | -1,782.79                         | -198.90    | 2,795.53             | 2,740.39              | 55.14                   | 50.699             |         |
| 8,000.00                                    | 7,898.42            | 7,853.31            | 7,850.21            | 29.39           | 26.80       | -167.86               | -1,784.05                         | -198.65    | 2,798.90             | 2,743.20              | 55.71                   | 50.243             |         |
| 8,013.58                                    | 7,912.00            | 7,864.00            | 7,860.89            | 29.43           | 26.84       | -179.36               | -1,784.30                         | -198.61    | 2,799.24             | 2,743.45              | 55.79                   | 50.177             |         |
| 8,100.00                                    | 7,998.42            | 7,990.80            | 7,987.67            | 29.73           | 27.28       | -179.32               | -1,785.92                         | -196.81    | 2,800.23             | 2,743.65              | 56.58                   | 49.495             |         |
| 8,200.00                                    | 8,098.42            | 8,076.80            | 8,073.64            | 30.07           | 27.57       | -179.29               | -1,787.00                         | -195.38    | 2,801.48             | 2,744.28              | 57.20                   | 48.977             |         |
| 8,300.00                                    | 8,198.42            | 8,193.24            | 8,190.04            | 30.41           | 27.98       | -179.23               | -1,788.21                         | -192.43    | 2,802.55             | 2,744.59              | 57.96                   | 48.349             |         |
| 8,363.62                                    | 8,262.04            | 8,256.46            | 8,253.25            | 30.62           | 28.19       | -179.21               | -1,788.65                         | -191.29    | 2,803.01             | 2,744.61              | 58.40                   | 47.995             |         |
| 8,400.00                                    | 8,298.40            | 8,282.10            | 8,278.89            | 30.75           | 28.28       | -89.53                | -1,788.90                         | -191.01    | 2,803.37             | 2,744.77              | 58.60                   | 47.839             |         |
| 8,450.00                                    | 8,348.10            | 8,317.16            | 8,313.94            | 30.91           | 28.41       | -89.53                | -1,789.42                         | -190.79    | 2,804.06             | 2,745.20              | 58.87                   | 47.634             |         |
| 8,500.00                                    | 8,397.14            | 8,357.28            | 8,354.06            | 31.07           | 28.55       | -89.60                | -1,790.20                         | -190.75    | 2,804.98             | 2,745.82              | 59.16                   | 47.414             |         |
| 8,550.00                                    | 8,445.15            | 8,403.86            | 8,400.63            | 31.23           | 28.71       | -89.76                | -1,791.17                         | -190.84    | 2,805.98             | 2,746.49              | 59.48                   | 47.173             |         |
| 8,600.00                                    | 8,491.77            | 8,448.47            | 8,445.22            | 31.38           | 28.87       | -89.99                | -1,792.11                         | -191.05    | 2,807.08             | 2,747.28              | 59.80                   | 46.943             |         |
| 8,650.00                                    | 8,536.65            | 8,490.40            | 8,487.15            | 31.52           | 29.02       | -90.24                | -1,793.04                         | -191.37    | 2,808.36             | 2,748.26              | 60.10                   | 46.728             |         |
| 8,700.00                                    | 8,579.43            | 8,530.20            | 8,526.93            | 31.66           | 29.16       | -90.51                | -1,793.96                         | -191.81    | 2,809.92             | 2,749.52              | 60.40                   | 46.526             |         |
| 8,750.00                                    | 8,619.80            | 8,565.24            | 8,561.95            | 31.80           | 29.29       | -90.74                | -1,794.82                         | -192.18    | 2,811.86             | 2,751.19              | 60.67                   | 46.346             |         |
| 8,800.00                                    | 8,657.44            | 8,598.16            | 8,594.86            | 31.93           | 29.41       | -90.95                | -1,795.68                         | -192.43    | 2,814.27             | 2,753.32              | 60.94                   | 46.179             |         |
| 8,850.00                                    | 8,692.08            | 8,623.00            | 8,619.69            | 32.06           | 29.50       | -91.01                | -1,796.37                         | -192.55    | 2,817.24             | 2,756.05              | 61.18                   | 46.046             |         |
| 8,900.00                                    | 8,723.44            | 8,650.59            | 8,647.27            | 32.19           | 29.59       | -91.09                | -1,797.20                         | -192.67    | 2,820.86             | 2,759.41              | 61.45                   | 45.904             |         |
| 8,950.00                                    | 8,751.29            | 8,670.88            | 8,667.55            | 32.34           | 29.67       | -91.99                | -1,797.87                         | -192.78    | 2,825.22             | 2,763.52              | 61.70                   | 45.792             |         |
| 9,000.00                                    | 8,775.42            | 8,688.38            | 8,685.04            | 32.50           | 29.73       | -90.79                | -1,798.49                         | -192.89    | 2,830.36             | 2,768.42              | 61.95                   | 45.691             |         |
| 9,050.00                                    | 8,795.64            | 8,702.95            | 8,699.60            | 32.67           | 29.78       | -90.46                | -1,799.04                         | -192.99    | 2,836.31             | 2,774.11              | 62.20                   | 45.600             |         |
| 9,100.00                                    | 8,811.80            | 8,717.00            | 8,713.64            | 32.87           | 29.83       | -90.05                | -1,799.59                         | -193.10    | 2,843.08             | 2,780.60              | 62.47                   | 45.509             |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                |                |                |                 |        |                   |                              |              |                 |                  |                    |                   | Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 336H - ST01 - ST01 |         | Offset Site Error: 0.00 ft |  |
|---------------------------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------------|--------------|-----------------|------------------|--------------------|-------------------|----------------------------------------------------------------------|---------|----------------------------|--|
| Survey Program: 438-MWD+HDGM, 9290-MWD+HDGM |                |                |                |                 |        |                   |                              |              |                 |                  |                    |                   | Offset Well Error: 0.50 ft                                           |         |                            |  |
| Reference                                   |                | Offset         |                | Semi Major Axis |        |                   | Distance                     |              |                 |                  |                    |                   |                                                                      | Warning |                            |  |
| Measured Depth                              | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre +N/-S | Centre +E/-W | Between Centres | Between Ellipses | Minimum Separation | Separation Factor |                                                                      |         |                            |  |
| (ft)                                        | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | (ft)                         | (ft)         | (ft)            | (ft)             | (ft)               |                   |                                                                      |         |                            |  |
| 9,150.00                                    | 8,823.77       | 8,717.00       | 8,713.64       | 33.10           | 29.83  | 89.28             | -1,799.59                    | -193.10      | 2,850.66        | 2,787.97         | 62.69              | 45.471            |                                                                      |         |                            |  |
| 9,200.00                                    | 8,831.47       | 8,727.94       | 8,724.57       | 33.34           | 29.87  | 88.65             | -1,800.03                    | -193.19      | 2,859.02        | 2,796.03         | 62.99              | 45.389            |                                                                      |         |                            |  |
| 9,250.00                                    | 8,834.84       | 8,730.02       | 8,726.64       | 33.60           | 29.88  | 87.77             | -1,800.12                    | -193.20      | 2,868.12        | 2,804.86         | 63.25              | 45.343            |                                                                      |         |                            |  |
| 9,263.62                                    | 8,835.00       | 9,936.91       | 9,297.24       | 33.67           | 36.85  | 98.99             | -1,813.15                    | 474.66       | 2,868.81        | 2,798.49         | 70.32              | 40.797            |                                                                      |         |                            |  |
| 9,300.00                                    | 8,835.00       | 9,979.53       | 9,298.41       | 33.88           | 37.49  | 99.02             | -1,810.92                    | 517.20       | 2,867.30        | 2,796.14         | 71.16              | 40.295            |                                                                      |         |                            |  |
| 9,400.00                                    | 8,835.00       | 10,069.15      | 9,301.43       | 34.53           | 38.90  | 99.09             | -1,806.06                    | 606.64       | 2,863.08        | 2,789.85         | 73.23              | 39.097            |                                                                      |         |                            |  |
| 9,500.00                                    | 8,835.00       | 10,126.67      | 9,303.07       | 35.30           | 39.87  | 99.13             | -1,803.64                    | 664.09       | 2,859.96        | 2,784.99         | 74.98              | 38.144            |                                                                      |         |                            |  |
| 9,600.00                                    | 8,835.00       | 10,201.78      | 9,304.59       | 36.17           | 41.21  | 99.17             | -1,801.58                    | 739.15       | 2,858.13        | 2,780.95         | 77.18              | 37.034            |                                                                      |         |                            |  |
| 9,700.00                                    | 8,835.00       | 10,274.74      | 9,306.21       | 37.13           | 42.56  | 99.20             | -1,800.02                    | 812.08       | 2,857.00        | 2,777.52         | 79.48              | 35.945            |                                                                      |         |                            |  |
| 9,742.29                                    | 8,835.00       | 10,301.10      | 9,307.27       | 37.57           | 43.07  | 99.22             | -1,799.62                    | 838.41       | 2,856.88        | 2,776.46         | 80.42              | 35.524            |                                                                      |         |                            |  |
| 9,800.00                                    | 8,835.00       | 10,338.00      | 9,309.29       | 38.18           | 43.78  | 99.27             | -1,799.22                    | 875.26       | 2,857.10        | 2,775.38         | 81.72              | 34.962            |                                                                      |         |                            |  |
| 9,900.00                                    | 8,835.00       | 10,430.80      | 9,315.72       | 39.31           | 45.64  | 99.39             | -1,798.44                    | 967.83       | 2,857.99        | 2,773.32         | 84.67              | 33.755            |                                                                      |         |                            |  |
| 10,000.00                                   | 8,835.00       | 10,553.44      | 9,324.00       | 40.51           | 48.23  | 99.56             | -1,797.03                    | 1,090.18     | 2,858.54        | 2,770.15         | 88.39              | 32.339            |                                                                      |         |                            |  |
| 10,100.00                                   | 8,835.00       | 10,646.72      | 9,328.01       | 41.78           | 50.27  | 99.64             | -1,795.92                    | 1,183.37     | 2,858.69        | 2,767.04         | 91.65              | 31.192            |                                                                      |         |                            |  |
| 10,200.00                                   | 8,835.00       | 10,719.00      | 9,329.83       | 43.10           | 51.88  | 99.67             | -1,796.03                    | 1,255.62     | 2,859.78        | 2,765.24         | 94.54              | 30.248            |                                                                      |         |                            |  |
| 10,300.00                                   | 8,835.00       | 10,791.67      | 9,331.28       | 44.49           | 53.55  | 99.70             | -1,796.91                    | 1,328.27     | 2,861.84        | 2,764.30         | 97.54              | 29.340            |                                                                      |         |                            |  |
| 10,400.00                                   | 8,835.00       | 10,919.34      | 9,334.08       | 45.92           | 56.54  | 99.75             | -1,798.32                    | 1,455.91     | 2,863.93        | 2,762.03         | 101.91             | 28.104            |                                                                      |         |                            |  |
| 10,500.00                                   | 8,835.00       | 11,000.15      | 9,335.85       | 47.39           | 58.47  | 99.78             | -1,799.04                    | 1,536.69     | 2,865.75        | 2,760.49         | 105.26             | 27.226            |                                                                      |         |                            |  |
| 10,600.00                                   | 8,835.00       | 11,142.98      | 9,339.06       | 48.91           | 61.96  | 99.84             | -1,799.29                    | 1,679.48     | 2,866.82        | 2,756.61         | 110.20             | 26.014            |                                                                      |         |                            |  |
| 10,700.00                                   | 8,835.00       | 11,249.31      | 9,341.79       | 50.47           | 64.59  | 99.89             | -1,798.72                    | 1,785.78     | 2,867.32        | 2,752.99         | 114.33             | 25.080            |                                                                      |         |                            |  |
| 10,800.00                                   | 8,835.00       | 11,348.99      | 9,344.61       | 52.06           | 67.09  | 99.95             | -1,797.94                    | 1,885.42     | 2,867.62        | 2,749.27         | 118.35             | 24.230            |                                                                      |         |                            |  |
| 10,900.00                                   | 8,835.00       | 11,441.53      | 9,347.13       | 53.68           | 69.44  | 100.00            | -1,797.41                    | 1,977.91     | 2,868.12        | 2,745.87         | 122.25             | 23.462            |                                                                      |         |                            |  |
| 11,000.00                                   | 8,835.00       | 11,531.02      | 9,348.03       | 55.32           | 71.73  | 100.01            | -1,797.45                    | 2,067.40     | 2,868.92        | 2,742.79         | 126.12             | 22.747            |                                                                      |         |                            |  |
| 11,100.00                                   | 8,835.00       | 11,618.96      | 9,348.84       | 57.00           | 74.01  | 100.02            | -1,797.86                    | 2,155.34     | 2,870.13        | 2,740.13         | 130.00             | 22.078            |                                                                      |         |                            |  |
| 11,200.00                                   | 8,835.00       | 11,716.11      | 9,349.77       | 58.70           | 76.53  | 100.04            | -1,798.67                    | 2,252.48     | 2,871.69        | 2,737.53         | 134.16             | 21.405            |                                                                      |         |                            |  |
| 11,300.00                                   | 8,835.00       | 11,828.50      | 9,350.92       | 60.41           | 79.48  | 100.06            | -1,799.30                    | 2,364.86     | 2,873.02        | 2,734.25         | 138.76             | 20.704            |                                                                      |         |                            |  |
| 11,400.00                                   | 8,835.00       | 11,951.13      | 9,352.32       | 62.15           | 82.72  | 100.08            | -1,799.23                    | 2,487.48     | 2,873.75        | 2,730.08         | 143.67             | 20.002            |                                                                      |         |                            |  |
| 11,500.00                                   | 8,835.00       | 12,055.52      | 9,354.13       | 63.91           | 85.49  | 100.12            | -1,798.51                    | 2,591.85     | 2,873.96        | 2,725.84         | 148.12             | 19.402            |                                                                      |         |                            |  |
| 11,600.00                                   | 8,835.00       | 12,156.27      | 9,356.70       | 65.69           | 88.17  | 100.17            | -1,797.63                    | 2,692.57     | 2,874.14        | 2,721.63         | 152.50             | 18.846            |                                                                      |         |                            |  |
| 11,700.00                                   | 8,835.00       | 12,305.09      | 9,361.26       | 67.47           | 92.16  | 100.26            | -1,795.12                    | 2,841.29     | 2,873.71        | 2,715.55         | 158.16             | 18.170            |                                                                      |         |                            |  |
| 11,800.00                                   | 8,835.00       | 12,471.46      | 9,365.50       | 69.28           | 96.63  | 100.37            | -1,788.44                    | 3,007.47     | 2,870.67        | 2,706.43         | 164.24             | 17.478            |                                                                      |         |                            |  |
| 11,900.00                                   | 8,835.00       | 12,557.35      | 9,367.39       | 71.09           | 98.95  | 100.42            | -1,784.15                    | 3,093.23     | 2,866.78        | 2,698.47         | 168.31             | 17.032            |                                                                      |         |                            |  |
| 12,000.00                                   | 8,835.00       | 12,622.00      | 9,368.08       | 72.92           | 100.70 | 100.44            | -1,781.95                    | 3,157.84     | 2,864.14        | 2,692.28         | 171.86             | 16.665            |                                                                      |         |                            |  |
| 12,100.00                                   | 8,835.00       | 12,729.53      | 9,368.29       | 74.76           | 103.62 | 100.45            | -1,779.00                    | 3,265.32     | 2,862.08        | 2,685.53         | 176.54             | 16.212            |                                                                      |         |                            |  |
| 12,200.00                                   | 8,835.00       | 12,779.43      | 9,368.23       | 76.61           | 104.98 | 100.45            | -1,778.06                    | 3,315.21     | 2,860.66        | 2,680.93         | 179.73             | 15.917            |                                                                      |         |                            |  |
| 12,251.75                                   | 8,835.00       | 12,812.00      | 9,368.17       | 77.58           | 105.87 | 100.45            | -1,777.80                    | 3,347.79     | 2,860.52        | 2,678.97         | 181.55             | 15.756            |                                                                      |         |                            |  |
| 12,300.00                                   | 8,835.00       | 12,846.81      | 9,368.11       | 78.47           | 106.83 | 100.45            | -1,777.72                    | 3,382.59     | 2,860.67        | 2,677.30         | 183.36             | 15.601            |                                                                      |         |                            |  |
| 12,400.00                                   | 8,835.00       | 12,926.91      | 9,368.19       | 80.34           | 109.02 | 100.45            | -1,777.87                    | 3,462.69     | 2,861.46        | 2,674.11         | 187.35             | 15.273            |                                                                      |         |                            |  |
| 12,500.00                                   | 8,835.00       | 13,002.00      | 9,369.37       | 82.22           | 111.09 | 100.47            | -1,778.43                    | 3,537.77     | 2,863.06        | 2,671.88         | 191.19             | 14.975            |                                                                      |         |                            |  |
| 12,600.00                                   | 8,835.00       | 13,112.56      | 9,372.08       | 84.11           | 114.13 | 100.52            | -1,779.44                    | 3,648.29     | 2,865.00        | 2,668.97         | 196.04             | 14.615            |                                                                      |         |                            |  |
| 12,700.00                                   | 8,835.00       | 13,248.22      | 9,375.18       | 86.00           | 117.87 | 100.57            | -1,779.29                    | 3,783.91     | 2,865.84        | 2,664.25         | 201.59             | 14.216            |                                                                      |         |                            |  |
| 12,800.00                                   | 8,835.00       | 13,333.73      | 9,376.97       | 87.90           | 120.23 | 100.61            | -1,778.87                    | 3,869.41     | 2,866.36        | 2,660.60         | 205.76             | 13.931            |                                                                      |         |                            |  |
| 12,900.00                                   | 8,835.00       | 13,429.17      | 9,379.16       | 89.81           | 122.88 | 100.65            | -1,779.15                    | 3,964.83     | 2,867.65        | 2,657.44         | 210.21             | 13.642            |                                                                      |         |                            |  |
| 13,000.00                                   | 8,835.00       | 13,527.29      | 9,382.14       | 91.72           | 125.60 | 100.71            | -1,778.86                    | 4,062.89     | 2,868.51        | 2,653.77         | 214.74             | 13.358            |                                                                      |         |                            |  |
| 13,100.00                                   | 8,835.00       | 13,639.97      | 9,385.36       | 93.64           | 128.72 | 100.77            | -1,779.04                    | 4,175.53     | 2,869.83        | 2,650.15         | 219.68             | 13.064            |                                                                      |         |                            |  |
| 13,200.00                                   | 8,835.00       | 13,776.23      | 9,388.95       | 95.56           | 132.51 | 100.84            | -1,777.38                    | 4,311.73     | 2,869.64        | 2,644.37         | 225.27             | 12.738            |                                                                      |         |                            |  |
| 13,246.95                                   | 8,835.00       | 13,807.51      | 9,389.47       | 96.47           | 133.38 | 100.85            | -1,777.01                    | 4,343.00     | 2,869.51        | 2,642.50         | 227.01             | 12.640            |                                                                      |         |                            |  |
| 13,300.00                                   | 8,835.00       | 13,842.86      | 9,389.81       | 97.49           | 134.37 | 100.86            | -1,776.84                    | 4,378.35     | 2,869.68        | 2,640.70         | 228.97             | 12.533            |                                                                      |         |                            |  |
| 13,400.00                                   | 8,835.00       | 13,939.20      | 9,389.06       | 99.42           | 137.05 | 100.84            | -1,777.20                    | 4,474.69     | 2,870.47        | 2,636.95         | 233.52             | 12.292            |                                                                      |         |                            |  |
| 13,500.00                                   | 8,835.00       | 14,011.79      | 9,387.72       | 101.36          | 139.08 | 100.81            | -1,777.85                    | 4,547.26     | 2,871.62        | 2,634.21         | 237.41             | 12.096            |                                                                      |         |                            |  |
| 13,600.00                                   | 8,835.00       | 14,104.99      | 9,388.31       | 103.30          | 141.69 | 100.81            | -1,779.15                    | 4,640.45     | 2,873.68        | 2,631.81         | 241.87             | 11.881            |                                                                      |         |                            |  |
| 13,700.00                                   | 8,835.00       | 14,212.10      | 9,390.64       | 105.25          | 144.68 | 100.85            | -1,779.96                    | 4,747.53     | 2,875.40        | 2,628.69         | 246.72             | 11.655            |                                                                      |         |                            |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|---------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 438-MWD+HDGM, 9290-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 13,800.00                                   | 8,835.00            | 14,388.71           | 9,398.58            | 107.20          | 149.62      | 101.01                | -1,777.79                         | 4,923.93   | 2,875.54             | 2,622.10              | 253.43                  | 11.346            |                    |         |
| 13,900.00                                   | 8,835.00            | 14,503.76           | 9,404.73            | 109.15          | 152.83      | 101.14                | -1,774.48                         | 5,038.76   | 2,874.33             | 2,615.92              | 258.41                  | 11.123            |                    |         |
| 14,000.00                                   | 8,835.00            | 14,620.05           | 9,410.28            | 111.10          | 156.07      | 101.26                | -1,770.60                         | 5,154.85   | 2,872.56             | 2,609.14              | 263.42                  | 10.905            |                    |         |
| 14,100.00                                   | 8,835.00            | 14,719.50           | 9,414.44            | 113.06          | 158.85      | 101.36                | -1,767.11                         | 5,254.15   | 2,870.52             | 2,602.51              | 268.01                  | 10.711            |                    |         |
| 14,200.00                                   | 8,835.00            | 14,800.94           | 9,417.27            | 115.03          | 161.13      | 101.42                | -1,764.66                         | 5,335.51   | 2,868.84             | 2,596.69              | 272.15                  | 10.541            |                    |         |
| 14,300.00                                   | 8,835.00            | 14,878.10           | 9,418.16            | 116.99          | 163.30      | 101.44                | -1,763.24                         | 5,412.65   | 2,867.85             | 2,591.65              | 276.20                  | 10.383            |                    |         |
| 14,400.00                                   | 8,835.00            | 14,964.70           | 9,417.54            | 118.96          | 165.74      | 101.43                | -1,762.60                         | 5,499.24   | 2,867.56             | 2,587.03              | 280.53                  | 10.222            |                    |         |
| 14,500.00                                   | 8,835.00            | 15,076.18           | 9,418.66            | 120.93          | 168.87      | 101.45                | -1,761.48                         | 5,610.71   | 2,867.38             | 2,581.85              | 285.53                  | 10.042            |                    |         |
| 14,600.00                                   | 8,835.00            | 15,201.28           | 9,420.73            | 122.90          | 172.39      | 101.50                | -1,759.16                         | 5,735.77   | 2,866.48             | 2,575.60              | 290.87                  | 9.855             |                    |         |
| 14,700.00                                   | 8,835.00            | 15,336.05           | 9,425.34            | 124.88          | 176.18      | 101.61                | -1,754.38                         | 5,870.37   | 2,864.20             | 2,567.81              | 296.39                  | 9.664             |                    |         |
| 14,800.00                                   | 8,835.00            | 15,448.66           | 9,429.61            | 126.86          | 179.34      | 101.71                | -1,749.67                         | 5,982.80   | 2,861.45             | 2,560.13              | 301.32                  | 9.496             |                    |         |
| 14,900.00                                   | 8,835.00            | 15,520.82           | 9,432.04            | 128.84          | 181.36      | 101.76                | -1,746.68                         | 6,054.86   | 2,858.73             | 2,553.47              | 305.26                  | 9.365             |                    |         |
| 15,000.00                                   | 8,835.00            | 15,587.11           | 9,433.38            | 130.82          | 183.23      | 101.80                | -1,745.11                         | 6,121.12   | 2,857.35             | 2,548.32              | 309.03                  | 9.246             |                    |         |
| 15,100.00                                   | 8,835.00            | 15,698.47           | 9,435.02            | 132.80          | 186.37      | 101.83                | -1,743.05                         | 6,232.44   | 2,856.45             | 2,542.43              | 314.02                  | 9.096             |                    |         |
| 15,200.00                                   | 8,835.00            | 15,806.77           | 9,436.38            | 134.79          | 189.43      | 101.87                | -1,740.19                         | 6,340.69   | 2,854.68             | 2,535.76              | 318.92                  | 8.951             |                    |         |
| 15,300.00                                   | 8,835.00            | 15,899.52           | 9,436.02            | 136.78          | 192.04      | 101.87                | -1,738.52                         | 6,433.42   | 2,853.41             | 2,529.96              | 323.45                  | 8.822             |                    |         |
| 15,400.00                                   | 8,835.00            | 15,985.34           | 9,435.48            | 138.76          | 194.47      | 101.86                | -1,736.94                         | 6,519.24   | 2,852.10             | 2,524.31              | 327.79                  | 8.701             |                    |         |
| 15,461.01                                   | 8,835.00            | 16,022.97           | 9,435.52            | 139.98          | 195.53      | 101.86                | -1,736.55                         | 6,556.86   | 2,851.85             | 2,521.83              | 330.02                  | 8.641             |                    |         |
| 15,500.00                                   | 8,835.00            | 16,047.85           | 9,435.66            | 140.76          | 196.24      | 101.86                | -1,736.44                         | 6,581.74   | 2,851.95             | 2,520.50              | 331.45                  | 8.604             |                    |         |
| 15,600.00                                   | 8,835.00            | 16,163.40           | 9,436.44            | 142.75          | 199.51      | 101.88                | -1,735.90                         | 6,697.28   | 2,852.22             | 2,515.60              | 336.62                  | 8.473             |                    |         |
| 15,697.09                                   | 8,835.00            | 16,259.06           | 9,437.25            | 144.68          | 202.21      | 101.90                | -1,734.83                         | 6,792.94   | 2,851.90             | 2,510.74              | 341.15                  | 8.360             |                    |         |
| 15,700.00                                   | 8,835.00            | 16,260.72           | 9,437.27            | 144.74          | 202.26      | 101.90                | -1,734.81                         | 6,794.59   | 2,851.90             | 2,510.64              | 341.25                  | 8.357             |                    |         |
| 15,800.00                                   | 8,835.00            | 16,328.00           | 9,438.62            | 146.74          | 204.17      | 101.92                | -1,734.77                         | 6,861.86   | 2,852.73             | 2,507.72              | 345.01                  | 8.269             |                    |         |
| 15,900.00                                   | 8,835.00            | 16,390.45           | 9,440.58            | 148.73          | 205.94      | 101.96                | -1,735.37                         | 6,924.28   | 2,854.78             | 2,506.22              | 348.55                  | 8.190             |                    |         |
| 16,000.00                                   | 8,835.00            | 16,500.79           | 9,445.37            | 150.73          | 209.06      | 102.04                | -1,736.58                         | 7,034.50   | 2,857.36             | 2,503.84              | 353.52                  | 8.083             |                    |         |
| 16,100.00                                   | 8,835.00            | 16,596.41           | 9,450.46            | 152.73          | 211.77      | 102.14                | -1,737.00                         | 7,129.99   | 2,859.49             | 2,501.48              | 358.01                  | 7.987             |                    |         |
| 16,200.00                                   | 8,835.00            | 16,703.01           | 9,456.69            | 154.73          | 214.79      | 102.26                | -1,737.46                         | 7,236.40   | 2,861.74             | 2,498.92              | 362.82                  | 7.888             |                    |         |
| 16,300.00                                   | 8,835.00            | 16,811.19           | 9,463.43            | 156.73          | 217.85      | 102.39                | -1,737.49                         | 7,344.37   | 2,863.68             | 2,496.03              | 367.65                  | 7.789             |                    |         |
| 16,400.00                                   | 8,835.00            | 16,932.66           | 9,469.29            | 158.74          | 221.29      | 102.50                | -1,737.35                         | 7,465.70   | 2,865.21             | 2,492.30              | 372.90                  | 7.684             |                    |         |
| 16,500.00                                   | 8,835.00            | 17,048.26           | 9,472.96            | 160.74          | 224.57      | 102.57                | -1,736.57                         | 7,581.24   | 2,865.79             | 2,487.78              | 378.01                  | 7.581             |                    |         |
| 16,600.00                                   | 8,835.00            | 17,166.49           | 9,472.10            | 162.74          | 227.92      | 102.55                | -1,736.45                         | 7,699.46   | 2,866.14             | 2,482.84              | 383.30                  | 7.478             |                    |         |
| 16,626.13                                   | 8,835.00            | 17,201.28           | 9,471.06            | 163.27          | 228.91      | 102.53                | -1,736.37                         | 7,734.23   | 2,866.06             | 2,481.26              | 384.81                  | 7.448             |                    |         |
| 16,700.00                                   | 8,835.00            | 17,234.93           | 9,470.53            | 164.75          | 229.87      | 102.52                | -1,736.55                         | 7,767.88   | 2,866.43             | 2,479.26              | 387.17                  | 7.404             |                    |         |
| 16,800.00                                   | 8,835.00            | 17,304.98           | 9,470.32            | 166.76          | 231.86      | 102.51                | -1,737.38                         | 7,837.92   | 2,868.05             | 2,477.04              | 391.01                  | 7.335             |                    |         |
| 16,900.00                                   | 8,835.00            | 17,413.53           | 9,473.55            | 168.77          | 234.94      | 102.56                | -1,738.29                         | 7,946.41   | 2,870.11             | 2,474.15              | 395.95                  | 7.249             |                    |         |
| 17,000.00                                   | 8,835.00            | 17,518.06           | 9,477.32            | 170.77          | 237.91      | 102.63                | -1,738.31                         | 8,050.87   | 2,871.49             | 2,470.74              | 400.75                  | 7.165             |                    |         |
| 17,100.00                                   | 8,835.00            | 17,611.25           | 9,480.15            | 172.78          | 240.56      | 102.69                | -1,738.86                         | 8,144.02   | 2,873.30             | 2,468.08              | 405.22                  | 7.091             |                    |         |
| 17,200.00                                   | 8,835.00            | 17,754.83           | 9,482.86            | 174.79          | 244.64      | 102.73                | -1,739.19                         | 8,287.57   | 2,874.60             | 2,463.39              | 411.21                  | 6.991             |                    |         |
| 17,300.00                                   | 8,835.00            | 17,846.79           | 9,484.29            | 176.81          | 247.26      | 102.76                | -1,738.73                         | 8,379.52   | 2,875.04             | 2,459.35              | 415.68                  | 6.916             |                    |         |
| 17,400.00                                   | 8,835.00            | 17,849.00           | 9,484.32            | 178.82          | 247.32      | 102.76                | -1,738.72                         | 8,381.73   | 2,877.27             | 2,459.93              | 417.34                  | 6.894             |                    |         |
| 17,500.00                                   | 8,835.00            | 17,906.03           | 9,491.05            | 180.83          | 248.86      | 102.89                | -1,738.59                         | 8,438.26   | 2,881.01             | 2,460.70              | 420.31                  | 6.854             |                    |         |
| 17,600.00                                   | 8,835.00            | 18,174.22           | 9,518.83            | 182.84          | 256.29      | 103.42                | -1,738.66                         | 8,702.87   | 2,884.62             | 2,455.16              | 429.47                  | 6.717             |                    |         |
| 17,700.00                                   | 8,835.00            | 18,337.79           | 9,520.68            | 184.86          | 260.93      | 103.47                | -1,734.42                         | 8,866.38   | 2,882.73             | 2,446.93              | 435.80                  | 6.615             |                    |         |
| 17,800.00                                   | 8,835.00            | 18,450.41           | 9,521.89            | 186.87          | 264.12      | 103.51                | -1,730.31                         | 8,978.91   | 2,880.01             | 2,439.22              | 440.78                  | 6.534             |                    |         |
| 17,900.00                                   | 8,835.00            | 18,540.98           | 9,522.79            | 188.89          | 266.69      | 103.54                | -1,726.91                         | 9,069.42   | 2,877.19             | 2,431.95              | 445.24                  | 6.462             |                    |         |
| 18,000.00                                   | 8,835.00            | 18,619.36           | 9,525.09            | 190.91          | 268.92      | 103.60                | -1,724.18                         | 9,147.71   | 2,875.05             | 2,425.71              | 449.34                  | 6.398             |                    |         |
| 18,100.00                                   | 8,835.00            | 18,717.28           | 9,529.47            | 192.92          | 271.69      | 103.70                | -1,720.71                         | 9,245.47   | 2,873.24             | 2,419.38              | 453.86                  | 6.331             |                    |         |
| 18,200.00                                   | 8,835.00            | 18,803.59           | 9,533.98            | 194.94          | 274.14      | 103.79                | -1,717.83                         | 9,331.61   | 2,871.81             | 2,413.74              | 458.07                  | 6.269             |                    |         |
| 18,300.00                                   | 8,835.00            | 18,942.46           | 9,541.96            | 196.96          | 278.06      | 103.97                | -1,711.87                         | 9,470.13   | 2,869.47             | 2,406.00              | 463.48                  | 6.191             |                    |         |
| 18,400.00                                   | 8,835.00            | 19,050.69           | 9,549.04            | 198.98          | 281.12      | 104.13                | -1,706.55                         | 9,578.00   | 2,866.87             | 2,398.76              | 468.11                  | 6.124             |                    |         |
| 18,500.00                                   | 8,835.00            | 19,160.15           | 9,556.96            | 201.00          | 284.20      | 104.31                | -1,700.38                         | 9,686.99   | 2,863.74             | 2,391.02              | 472.73                  | 6.058             |                    |         |
| 18,600.00                                   | 8,835.00            | 19,172.00           | 9,557.83            | 203.02          | 284.54      | 104.33                | -1,699.70                         | 9,698.79   | 2,861.91             | 2,386.78              | 475.13                  | 6.023             |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 336H - ST01 - ST01 |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 0.00 ft |
|-------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|---------|
| Survey Program: 438-MWD+HDGM, 9290-MWD+HDGM                                               |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                 |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                           | Warning |
| Measured Depth<br>(ft)                                                                    | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |         |
| 18,603.10                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 203.08            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,861.91                   | 2,386.72                    | 475.19                        | 6.023                     |         |
| 18,700.00                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 205.04            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,863.55                   | 2,386.81                    | 476.74                        | 6.007                     |         |
| 18,800.00                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 207.06            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,868.68                   | 2,390.90                    | 477.78                        | 6.004 SF                  |         |
| 18,900.00                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 209.08            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,877.27                   | 2,399.02                    | 478.25                        | 6.016                     |         |
| 19,000.00                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 211.10            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,889.30                   | 2,411.14                    | 478.17                        | 6.042                     |         |
| 19,100.00                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 213.12            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,904.73                   | 2,427.19                    | 477.54                        | 6.083                     |         |
| 19,200.00                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 215.15            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,923.50                   | 2,447.11                    | 476.39                        | 6.137                     |         |
| 19,308.27                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 217.34            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,947.51                   | 2,472.93                    | 474.58                        | 6.211                     |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 438-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                         | 0.00                | 13.82               | 13.82               | 0.50            | 0.50        | -176.46               | -1,723.38                         | -106.64    | 1,726.67             |                       |                         |                   |                    |         |
| 100.00                       | 100.00              | 110.43              | 110.42              | 0.52            | 0.53        | -176.46               | -1,723.51                         | -106.51    | 1,726.80             | 1,725.75              | 1.05                    | 1,642.168         |                    |         |
| 200.00                       | 200.00              | 207.03              | 207.03              | 0.70            | 0.61        | -176.47               | -1,723.84                         | -106.20    | 1,727.12             | 1,725.81              | 1.31                    | 1,315.798         |                    |         |
| 300.00                       | 300.00              | 303.64              | 303.63              | 0.99            | 0.72        | -176.49               | -1,724.37                         | -105.69    | 1,727.64             | 1,725.94              | 1.70                    | 1,013.764         |                    |         |
| 400.00                       | 400.00              | 400.24              | 400.23              | 1.31            | 0.84        | -176.52               | -1,725.11                         | -104.99    | 1,728.36             | 1,726.20              | 2.15                    | 803.606           |                    |         |
| 500.00                       | 500.00              | 496.20              | 496.18              | 1.65            | 1.07        | -176.55               | -1,726.05                         | -104.13    | 1,729.28             | 1,726.56              | 2.72                    | 635.911           |                    |         |
| 600.00                       | 600.00              | 595.87              | 595.84              | 1.99            | 1.40        | -176.58               | -1,727.19                         | -103.24    | 1,730.38             | 1,726.99              | 3.39                    | 510.419           |                    |         |
| 700.00                       | 700.00              | 693.41              | 693.37              | 2.34            | 1.73        | -176.60               | -1,728.32                         | -102.62    | 1,731.49             | 1,727.42              | 4.07                    | 425.483           |                    |         |
| 800.00                       | 800.00              | 792.24              | 792.19              | 2.69            | 2.07        | -176.62               | -1,729.58                         | -102.17    | 1,732.74             | 1,727.98              | 4.76                    | 363.894           |                    |         |
| 900.00                       | 900.00              | 894.25              | 894.19              | 3.04            | 2.43        | -176.64               | -1,730.88                         | -101.51    | 1,733.97             | 1,728.49              | 5.47                    | 316.939           |                    |         |
| 1,000.00                     | 1,000.00            | 989.96              | 989.88              | 3.40            | 2.77        | -176.68               | -1,732.21                         | -100.60    | 1,735.30             | 1,729.14              | 6.16                    | 281.618           |                    |         |
| 1,100.00                     | 1,100.00            | 1,112.58            | 1,112.50            | 3.75            | 3.19        | -176.73               | -1,733.31                         | -99.14     | 1,736.14             | 1,729.20              | 6.94                    | 250.077           |                    |         |
| 1,200.00                     | 1,200.00            | 1,232.14            | 1,232.04            | 4.11            | 3.59        | -176.70               | -1,732.57                         | -99.90     | 1,735.54             | 1,727.85              | 7.69                    | 225.604           |                    |         |
| 1,300.00                     | 1,300.00            | 1,343.65            | 1,343.52            | 4.46            | 3.95        | -176.62               | -1,730.92                         | -102.28    | 1,734.19             | 1,725.77              | 8.41                    | 206.129           |                    |         |
| 1,400.00                     | 1,400.00            | 1,443.47            | 1,443.28            | 4.82            | 4.29        | -176.52               | -1,729.04                         | -105.09    | 1,732.47             | 1,723.37              | 9.10                    | 190.312           |                    |         |
| 1,500.00                     | 1,500.00            | 1,532.13            | 1,531.89            | 5.18            | 4.59        | -176.44               | -1,727.71                         | -107.50    | 1,731.15             | 1,721.38              | 9.76                    | 177.358           |                    |         |
| 1,600.00                     | 1,600.00            | 1,630.29            | 1,630.02            | 5.53            | 4.92        | -176.35               | -1,726.61                         | -110.19    | 1,730.20             | 1,719.74              | 10.45                   | 165.516           |                    |         |
| 1,700.00                     | 1,700.00            | 1,732.81            | 1,732.49            | 5.89            | 5.27        | -176.25               | -1,725.44                         | -112.99    | 1,729.24             | 1,718.07              | 11.16                   | 154.903           |                    |         |
| 1,800.00                     | 1,800.00            | 1,837.77            | 1,837.40            | 6.25            | 5.64        | -176.15               | -1,723.98                         | -115.93    | 1,728.02             | 1,716.14              | 11.88                   | 145.412           |                    |         |
| 1,900.00                     | 1,900.00            | 1,936.31            | 1,935.89            | 6.61            | 5.98        | -176.06               | -1,722.45                         | -118.48    | 1,726.65             | 1,714.07              | 12.58                   | 137.213           |                    |         |
| 2,000.00                     | 2,000.00            | 2,029.15            | 2,028.70            | 6.96            | 6.30        | -175.99               | -1,721.35                         | -120.74    | 1,725.64             | 1,712.38              | 13.27                   | 130.081           |                    |         |
| 2,044.39                     | 2,044.39            | 2,071.95            | 2,071.49            | 7.12            | 6.45        | -163.17               | -1,720.94                         | -121.80    | 1,725.46             | 1,711.88              | 13.57                   | 127.110 CC        |                    |         |
| 2,100.00                     | 2,099.99            | 2,126.07            | 2,125.58            | 7.32            | 6.64        | -163.13               | -1,720.47                         | -123.20    | 1,725.74             | 1,711.78              | 13.96                   | 123.592 ES        |                    |         |
| 2,200.00                     | 2,199.96            | 2,225.52            | 2,224.99            | 7.68            | 6.99        | -163.06               | -1,719.66                         | -125.99    | 1,727.64             | 1,712.97              | 14.67                   | 117.761           |                    |         |
| 2,300.00                     | 2,299.86            | 2,327.71            | 2,327.14            | 8.04            | 7.35        | -162.99               | -1,718.74                         | -128.89    | 1,731.13             | 1,715.74              | 15.39                   | 112.495           |                    |         |
| 2,400.00                     | 2,399.68            | 2,431.14            | 2,430.53            | 8.39            | 7.72        | -162.94               | -1,717.66                         | -131.82    | 1,736.13             | 1,720.02              | 16.11                   | 107.760           |                    |         |
| 2,500.00                     | 2,499.37            | 2,533.13            | 2,532.46            | 8.75            | 8.08        | -162.89               | -1,716.36                         | -134.91    | 1,742.59             | 1,725.76              | 16.83                   | 103.543           |                    |         |
| 2,600.00                     | 2,598.90            | 2,629.83            | 2,629.10            | 9.11            | 8.42        | -162.86               | -1,715.14                         | -137.85    | 1,750.73             | 1,733.20              | 17.53                   | 99.869            |                    |         |
| 2,700.00                     | 2,698.26            | 2,725.07            | 2,724.30            | 9.46            | 8.76        | -162.84               | -1,714.19                         | -140.72    | 1,760.78             | 1,742.56              | 18.23                   | 96.609            |                    |         |
| 2,800.00                     | 2,797.40            | 2,829.98            | 2,829.15            | 9.82            | 9.13        | -162.84               | -1,713.11                         | -143.67    | 1,772.44             | 1,753.49              | 18.96                   | 93.502            |                    |         |
| 2,900.00                     | 2,896.30            | 2,928.23            | 2,927.35            | 10.18           | 9.48        | -162.84               | -1,711.94                         | -146.60    | 1,785.63             | 1,765.96              | 19.66                   | 90.809            |                    |         |
| 3,000.00                     | 2,994.93            | 2,999.57            | 2,998.66            | 10.54           | 9.74        | -162.84               | -1,711.72                         | -148.55    | 1,801.28             | 1,781.01              | 20.27                   | 88.854            |                    |         |
| 3,100.00                     | 3,093.26            | 3,083.97            | 3,083.05            | 10.90           | 10.04       | -162.88               | -1,712.49                         | -150.29    | 1,819.75             | 1,798.83              | 20.93                   | 86.962            |                    |         |
| 3,195.07                     | 3,186.42            | 3,173.91            | 3,172.96            | 11.24           | 10.36       | -162.93               | -1,713.70                         | -152.18    | 1,839.25             | 1,817.66              | 21.58                   | 85.216            |                    |         |
| 3,200.00                     | 3,191.25            | 3,178.73            | 3,177.78            | 11.26           | 10.37       | -162.94               | -1,713.77                         | -152.28    | 1,840.30             | 1,818.68              | 21.62                   | 85.126            |                    |         |
| 3,300.00                     | 3,289.08            | 3,264.08            | 3,263.10            | 11.62           | 10.67       | -163.06               | -1,715.16                         | -153.63    | 1,861.85             | 1,839.58              | 22.27                   | 83.604            |                    |         |
| 3,400.00                     | 3,386.91            | 3,346.36            | 3,345.36            | 11.98           | 10.96       | -163.23               | -1,717.31                         | -153.35    | 1,884.24             | 1,861.33              | 22.90                   | 82.264            |                    |         |
| 3,500.00                     | 3,484.74            | 3,475.17            | 3,474.10            | 12.35           | 11.40       | -163.53               | -1,720.83                         | -151.44    | 1,906.85             | 1,883.13              | 23.72                   | 80.395            |                    |         |
| 3,600.00                     | 3,582.58            | 3,594.64            | 3,593.55            | 12.72           | 11.80       | -163.79               | -1,721.68                         | -149.87    | 1,927.36             | 1,902.87              | 24.49                   | 78.687            |                    |         |
| 3,700.00                     | 3,680.41            | 3,685.05            | 3,683.95            | 13.09           | 12.11       | -163.99               | -1,722.15                         | -148.58    | 1,947.72             | 1,922.56              | 25.16                   | 77.406            |                    |         |
| 3,800.00                     | 3,778.24            | 3,780.71            | 3,779.61            | 13.46           | 12.44       | -164.19               | -1,722.80                         | -147.15    | 1,968.26             | 1,942.41              | 25.85                   | 76.133            |                    |         |
| 3,900.00                     | 3,876.08            | 3,876.81            | 3,875.69            | 13.83           | 12.77       | -164.39               | -1,723.54                         | -145.84    | 1,988.92             | 1,962.37              | 26.55                   | 74.924            |                    |         |
| 4,000.00                     | 3,973.91            | 3,975.50            | 3,974.37            | 14.21           | 13.11       | -164.58               | -1,724.28                         | -144.81    | 2,009.59             | 1,982.34              | 27.25                   | 73.742            |                    |         |
| 4,100.00                     | 4,071.74            | 4,073.90            | 4,072.76            | 14.58           | 13.45       | -164.77               | -1,725.02                         | -143.85    | 2,030.29             | 2,002.33              | 27.96                   | 72.619            |                    |         |
| 4,200.00                     | 4,169.57            | 4,175.37            | 4,174.23            | 14.96           | 13.80       | -164.95               | -1,725.52                         | -143.05    | 2,050.77             | 2,022.09              | 28.68                   | 71.510            |                    |         |
| 4,300.00                     | 4,267.41            | 4,265.69            | 4,264.55            | 15.33           | 14.11       | -165.11               | -1,726.16                         | -142.44    | 2,071.47             | 2,042.11              | 29.36                   | 70.566            |                    |         |
| 4,400.00                     | 4,365.24            | 4,363.96            | 4,362.82            | 15.71           | 14.46       | -165.26               | -1,727.01                         | -142.03    | 2,092.35             | 2,062.28              | 30.07                   | 69.591            |                    |         |
| 4,500.00                     | 4,463.07            | 4,465.86            | 4,464.70            | 16.09           | 14.82       | -165.42               | -1,727.68                         | -141.80    | 2,113.05             | 2,082.25              | 30.79                   | 68.618            |                    |         |
| 4,600.00                     | 4,560.90            | 4,563.06            | 4,561.91            | 16.47           | 15.16       | -165.57               | -1,728.30                         | -141.53    | 2,133.74             | 2,102.23              | 31.50                   | 67.729            |                    |         |
| 4,700.00                     | 4,658.74            | 4,660.46            | 4,659.31            | 16.85           | 15.50       | -165.70               | -1,728.89                         | -141.51    | 2,154.42             | 2,122.20              | 32.22                   | 66.874            |                    |         |
| 4,800.00                     | 4,756.57            | 4,756.75            | 4,755.59            | 17.23           | 15.84       | -165.84               | -1,729.56                         | -141.50    | 2,175.19             | 2,142.27              | 32.92                   | 66.066            |                    |         |
| 4,900.00                     | 4,854.40            | 4,856.71            | 4,855.55            | 17.61           | 16.19       | -165.97               | -1,730.23                         | -141.65    | 2,195.96             | 2,162.31              | 33.65                   | 65.260            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 438-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,000.00                     | 4,952.23            | 4,946.34            | 4,945.17            | 17.99           | 16.51       | -166.08               | -1,730.78                         | -141.82    | 2,216.70             | 2,182.37              | 34.33                   | 64.569            |                    |         |
| 5,100.00                     | 5,050.07            | 5,027.50            | 5,026.32            | 18.37           | 16.79       | -166.16               | -1,731.94                         | -142.93    | 2,238.22             | 2,203.25              | 34.98                   | 63.995            |                    |         |
| 5,200.00                     | 5,147.90            | 5,126.70            | 5,125.49            | 18.75           | 17.14       | -166.24               | -1,733.54                         | -144.93    | 2,259.96             | 2,224.27              | 35.70                   | 63.306            |                    |         |
| 5,300.00                     | 5,245.73            | 5,222.43            | 5,221.18            | 19.14           | 17.48       | -166.31               | -1,735.11                         | -147.02    | 2,281.74             | 2,245.33              | 36.41                   | 62.672            |                    |         |
| 5,400.00                     | 5,343.56            | 5,317.54            | 5,316.25            | 19.52           | 17.82       | -166.37               | -1,736.75                         | -149.13    | 2,303.59             | 2,266.47              | 37.11                   | 62.067            |                    |         |
| 5,500.00                     | 5,441.40            | 5,412.21            | 5,410.88            | 19.90           | 18.16       | -166.43               | -1,738.52                         | -151.50    | 2,325.59             | 2,287.77              | 37.82                   | 61.492            |                    |         |
| 5,600.00                     | 5,539.23            | 5,508.86            | 5,507.44            | 20.29           | 18.50       | -166.45               | -1,740.33                         | -155.34    | 2,347.61             | 2,309.07              | 38.53                   | 60.922            |                    |         |
| 5,700.00                     | 5,637.06            | 5,598.02            | 5,596.46            | 20.67           | 18.82       | -166.45               | -1,742.18                         | -159.86    | 2,369.83             | 2,330.62              | 39.22                   | 60.432            |                    |         |
| 5,800.00                     | 5,734.90            | 5,684.85            | 5,683.16            | 21.05           | 19.13       | -166.45               | -1,744.39                         | -164.02    | 2,392.51             | 2,352.62              | 39.89                   | 59.985            |                    |         |
| 5,900.00                     | 5,832.73            | 5,784.75            | 5,782.92            | 21.44           | 19.48       | -166.46               | -1,747.05                         | -168.53    | 2,415.30             | 2,374.68              | 40.62                   | 59.465            |                    |         |
| 6,000.00                     | 5,930.56            | 5,882.76            | 5,880.81            | 21.83           | 19.83       | -166.47               | -1,749.61                         | -172.76    | 2,438.04             | 2,396.70              | 41.34                   | 58.974            |                    |         |
| 6,100.00                     | 6,028.39            | 5,981.82            | 5,979.76            | 22.21           | 20.19       | -166.49               | -1,752.16                         | -176.69    | 2,460.75             | 2,418.68              | 42.07                   | 58.492            |                    |         |
| 6,200.00                     | 6,126.23            | 6,089.81            | 6,087.64            | 22.60           | 20.57       | -166.52               | -1,754.75                         | -180.58    | 2,483.28             | 2,440.44              | 42.84                   | 57.964            |                    |         |
| 6,300.00                     | 6,224.06            | 6,196.24            | 6,193.99            | 22.98           | 20.95       | -166.55               | -1,756.65                         | -184.51    | 2,505.20             | 2,461.60              | 43.61                   | 57.451            |                    |         |
| 6,400.00                     | 6,321.89            | 6,286.22            | 6,283.90            | 23.37           | 21.27       | -166.58               | -1,758.34                         | -187.63    | 2,527.23             | 2,482.93              | 44.29                   | 57.057            |                    |         |
| 6,500.00                     | 6,419.72            | 6,370.98            | 6,368.59            | 23.76           | 21.58       | -166.61               | -1,760.26                         | -190.48    | 2,549.62             | 2,504.67              | 44.96                   | 56.715            |                    |         |
| 6,600.00                     | 6,517.56            | 6,454.17            | 6,451.70            | 24.14           | 21.87       | -166.64               | -1,762.66                         | -193.07    | 2,572.62             | 2,527.01              | 45.61                   | 56.406            |                    |         |
| 6,700.00                     | 6,615.39            | 6,549.24            | 6,546.68            | 24.53           | 22.22       | -166.68               | -1,765.64                         | -195.92    | 2,595.87             | 2,549.54              | 46.32                   | 56.041            |                    |         |
| 6,800.00                     | 6,713.22            | 6,643.03            | 6,640.36            | 24.92           | 22.55       | -166.71               | -1,768.71                         | -199.25    | 2,619.25             | 2,572.22              | 47.03                   | 55.697            |                    |         |
| 6,900.00                     | 6,811.05            | 6,753.43            | 6,750.61            | 25.30           | 22.95       | -166.72               | -1,772.24                         | -203.89    | 2,642.58             | 2,594.77              | 47.82                   | 55.266            |                    |         |
| 7,000.00                     | 6,908.89            | 6,878.42            | 6,875.53            | 25.69           | 23.40       | -166.78               | -1,774.93                         | -206.91    | 2,664.83             | 2,616.16              | 48.67                   | 54.750            |                    |         |
| 7,100.00                     | 7,006.72            | 6,986.12            | 6,983.20            | 26.08           | 23.78       | -166.86               | -1,776.65                         | -208.60    | 2,686.58             | 2,637.14              | 49.45                   | 54.334            |                    |         |
| 7,200.00                     | 7,104.55            | 7,087.18            | 7,084.25            | 26.47           | 24.14       | -166.94               | -1,777.92                         | -209.69    | 2,708.00             | 2,657.81              | 50.19                   | 53.958            |                    |         |
| 7,216.87                     | 7,121.05            | 7,100.95            | 7,098.02            | 26.53           | 24.19       | -166.95               | -1,778.10                         | -209.75    | 2,711.62             | 2,661.33              | 50.30                   | 53.913            |                    |         |
| 7,300.00                     | 7,202.57            | 7,228.78            | 7,225.82            | 26.85           | 24.63       | -167.18               | -1,778.31                         | -207.35    | 2,727.52             | 2,676.42              | 51.10                   | 53.379            |                    |         |
| 7,400.00                     | 7,301.06            | 7,307.87            | 7,304.85            | 27.23           | 24.90       | -167.36               | -1,778.32                         | -204.42    | 2,744.43             | 2,692.71              | 51.72                   | 53.065            |                    |         |
| 7,500.00                     | 7,399.97            | 7,389.51            | 7,386.46            | 27.61           | 25.18       | -167.51               | -1,778.88                         | -202.22    | 2,759.48             | 2,707.13              | 52.35                   | 52.714            |                    |         |
| 7,600.00                     | 7,499.23            | 7,488.36            | 7,485.29            | 27.98           | 25.52       | -167.64               | -1,779.87                         | -200.50    | 2,772.31             | 2,719.26              | 53.05                   | 52.255            |                    |         |
| 7,700.00                     | 7,598.77            | 7,588.97            | 7,585.89            | 28.34           | 25.87       | -167.74               | -1,780.87                         | -199.41    | 2,782.59             | 2,728.83              | 53.77                   | 51.754            |                    |         |
| 7,800.00                     | 7,698.53            | 7,688.65            | 7,685.56            | 28.70           | 26.22       | -167.80               | -1,781.83                         | -199.10    | 2,790.30             | 2,735.82              | 54.47                   | 51.224            |                    |         |
| 7,900.00                     | 7,798.44            | 7,780.76            | 7,777.66            | 29.05           | 26.54       | -167.84               | -1,782.79                         | -198.90    | 2,795.53             | 2,740.39              | 55.14                   | 50.699            |                    |         |
| 8,000.00                     | 7,898.42            | 7,853.31            | 7,850.21            | 29.39           | 26.80       | -167.86               | -1,784.05                         | -198.65    | 2,798.90             | 2,743.20              | 55.71                   | 50.243            |                    |         |
| 8,013.58                     | 7,912.00            | 7,864.00            | 7,860.89            | 29.43           | 26.84       | 179.36                | -1,784.30                         | -198.61    | 2,799.24             | 2,743.45              | 55.79                   | 50.177            |                    |         |
| 8,100.00                     | 7,998.42            | 7,990.80            | 7,987.67            | 29.73           | 27.28       | 179.32                | -1,785.92                         | -196.81    | 2,800.23             | 2,743.65              | 56.58                   | 49.495            |                    |         |
| 8,200.00                     | 8,098.42            | 8,076.80            | 8,073.64            | 30.07           | 27.57       | 179.29                | -1,787.00                         | -195.38    | 2,801.48             | 2,744.29              | 57.20                   | 48.977            |                    |         |
| 8,300.00                     | 8,198.42            | 8,193.24            | 8,190.04            | 30.41           | 27.98       | 179.23                | -1,788.21                         | -192.43    | 2,802.55             | 2,744.59              | 57.96                   | 48.349            |                    |         |
| 8,363.62                     | 8,262.04            | 8,256.46            | 8,253.25            | 30.62           | 28.19       | 179.21                | -1,788.65                         | -191.29    | 2,803.01             | 2,744.61              | 58.40                   | 47.996            |                    |         |
| 8,400.00                     | 8,298.40            | 8,282.10            | 8,278.89            | 30.75           | 28.28       | 89.53                 | -1,788.90                         | -191.01    | 2,803.37             | 2,744.77              | 58.60                   | 47.839            |                    |         |
| 8,450.00                     | 8,348.10            | 8,317.16            | 8,313.94            | 30.91           | 28.41       | 89.53                 | -1,789.42                         | -190.79    | 2,804.06             | 2,745.20              | 58.87                   | 47.634            |                    |         |
| 8,500.00                     | 8,397.14            | 8,357.28            | 8,354.06            | 31.07           | 28.55       | 89.60                 | -1,790.20                         | -190.75    | 2,804.98             | 2,745.82              | 59.16                   | 47.414            |                    |         |
| 8,550.00                     | 8,445.15            | 8,403.86            | 8,400.63            | 31.23           | 28.71       | 89.76                 | -1,791.17                         | -190.84    | 2,805.98             | 2,746.49              | 59.48                   | 47.173            |                    |         |
| 8,600.00                     | 8,491.77            | 8,448.47            | 8,445.22            | 31.38           | 28.87       | 89.99                 | -1,792.11                         | -191.05    | 2,807.08             | 2,747.28              | 59.80                   | 46.943            |                    |         |
| 8,650.00                     | 8,536.65            | 8,490.40            | 8,487.15            | 31.52           | 29.02       | 90.24                 | -1,793.04                         | -191.37    | 2,808.36             | 2,748.26              | 60.10                   | 46.728            |                    |         |
| 8,700.00                     | 8,579.43            | 8,530.20            | 8,526.93            | 31.66           | 29.16       | 90.51                 | -1,793.96                         | -191.81    | 2,809.92             | 2,749.52              | 60.40                   | 46.526            |                    |         |
| 8,750.00                     | 8,619.80            | 8,565.24            | 8,561.95            | 31.80           | 29.29       | 90.74                 | -1,794.82                         | -192.18    | 2,811.86             | 2,751.19              | 60.67                   | 46.346            |                    |         |
| 8,800.00                     | 8,657.44            | 8,598.16            | 8,594.86            | 31.93           | 29.41       | 90.95                 | -1,795.68                         | -192.43    | 2,814.27             | 2,753.32              | 60.94                   | 46.179            |                    |         |
| 8,850.00                     | 8,692.08            | 8,623.00            | 8,619.69            | 32.06           | 29.50       | 91.01                 | -1,796.37                         | -192.55    | 2,817.24             | 2,756.05              | 61.18                   | 46.046            |                    |         |
| 8,900.00                     | 8,723.44            | 8,650.59            | 8,647.27            | 32.19           | 29.59       | 91.09                 | -1,797.20                         | -192.67    | 2,820.86             | 2,759.41              | 61.45                   | 45.904            |                    |         |
| 8,950.00                     | 8,751.29            | 8,670.88            | 8,667.55            | 32.34           | 29.67       | 91.99                 | -1,797.87                         | -192.78    | 2,825.22             | 2,763.52              | 61.70                   | 45.792            |                    |         |
| 9,000.00                     | 8,775.42            | 8,688.38            | 8,685.04            | 32.50           | 29.73       | 90.79                 | -1,798.49                         | -192.89    | 2,830.36             | 2,768.42              | 61.95                   | 45.691            |                    |         |
| 9,050.00                     | 8,795.64            | 8,702.95            | 8,699.60            | 32.67           | 29.78       | 90.46                 | -1,799.04                         | -192.99    | 2,836.31             | 2,774.11              | 62.20                   | 45.600            |                    |         |
| 9,100.00                     | 8,811.80            | 8,717.00            | 8,713.64            | 32.87           | 29.83       | 90.05                 | -1,799.59                         | -193.10    | 2,843.08             | 2,780.60              | 62.47                   | 45.509            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 438-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,150.00                     | 8,823.77            | 8,717.00            | 8,713.64            | 33.10           | 29.83       | 89.28                 | -1,799.59                         | -193.10    | 2,850.66             | 2,787.97              | 62.69                   | 45.471            |                    |         |
| 9,200.00                     | 8,831.47            | 8,727.94            | 8,724.57            | 33.34           | 29.87       | 88.65                 | -1,800.03                         | -193.19    | 2,859.02             | 2,796.03              | 62.99                   | 45.389            |                    |         |
| 9,250.00                     | 8,834.84            | 8,730.02            | 8,726.64            | 33.60           | 29.88       | 87.77                 | -1,800.12                         | -193.20    | 2,868.12             | 2,804.86              | 63.25                   | 45.343            |                    |         |
| 9,263.62                     | 8,835.00            | 8,730.05            | 8,726.67            | 33.67           | 29.88       | 87.51                 | -1,800.12                         | -193.20    | 2,870.72             | 2,807.39              | 63.33                   | 45.332            |                    |         |
| 9,300.00                     | 8,835.00            | 8,729.82            | 8,726.45            | 33.88           | 29.88       | 87.50                 | -1,800.11                         | -193.20    | 2,877.94             | 2,814.42              | 63.52                   | 45.306            |                    |         |
| 9,400.00                     | 8,835.00            | 8,729.22            | 8,725.84            | 34.53           | 29.88       | 87.49                 | -1,800.09                         | -193.20    | 2,900.07             | 2,835.95              | 64.12                   | 45.225            |                    |         |
| 9,500.00                     | 8,835.00            | 8,728.61            | 8,725.24            | 35.30           | 29.87       | 87.48                 | -1,800.06                         | -193.19    | 2,925.45             | 2,860.65              | 64.80                   | 45.146            |                    |         |
| 9,600.00                     | 8,835.00            | 8,728.01            | 8,724.64            | 36.17           | 29.87       | 87.46                 | -1,800.04                         | -193.19    | 2,954.00             | 2,888.47              | 65.54                   | 45.074            |                    |         |
| 9,700.00                     | 8,835.00            | 8,727.42            | 8,724.05            | 37.13           | 29.87       | 87.45                 | -1,800.01                         | -193.18    | 2,985.63             | 2,919.31              | 66.32                   | 45.018            |                    |         |
| 9,800.00                     | 8,835.00            | 8,726.83            | 8,723.45            | 38.18           | 29.87       | 87.44                 | -1,799.99                         | -193.18    | 3,020.24             | 2,953.10              | 67.14                   | 44.983            |                    |         |
| 9,900.00                     | 8,835.00            | 8,726.24            | 8,722.87            | 39.31           | 29.87       | 87.43                 | -1,799.96                         | -193.17    | 3,057.73             | 2,989.74              | 67.99                   | 44.975 SF         |                    |         |
| 10,000.00                    | 8,835.00            | 8,725.65            | 8,722.28            | 40.51           | 29.86       | 87.42                 | -1,799.94                         | -193.17    | 3,097.99             | 3,029.15              | 68.85                   | 44.997            |                    |         |
| 10,100.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 41.78           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,140.94             | 3,071.27              | 69.68                   | 45.079            |                    |         |
| 10,200.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 43.10           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,186.43             | 3,115.89              | 70.55                   | 45.166            |                    |         |
| 10,300.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 44.49           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,234.38             | 3,162.96              | 71.42                   | 45.290            |                    |         |
| 10,400.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 45.92           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,284.67             | 3,212.40              | 72.27                   | 45.449            |                    |         |
| 10,500.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 47.39           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,337.20             | 3,264.09              | 73.11                   | 45.646            |                    |         |
| 10,600.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 48.91           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,391.86             | 3,317.93              | 73.93                   | 45.879            |                    |         |
| 10,700.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 50.47           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,448.56             | 3,373.83              | 74.73                   | 46.147            |                    |         |
| 10,800.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 52.06           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,507.19             | 3,431.69              | 75.51                   | 46.449            |                    |         |
| 10,900.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 53.68           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,567.67             | 3,491.41              | 76.26                   | 46.785            |                    |         |
| 11,000.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 55.32           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,629.89             | 3,552.91              | 76.98                   | 47.153            |                    |         |
| 11,100.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 57.00           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,693.77             | 3,616.09              | 77.68                   | 47.551            |                    |         |
| 11,200.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 58.70           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,759.22             | 3,680.87              | 78.35                   | 47.978            |                    |         |
| 11,300.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 60.41           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,826.17             | 3,747.18              | 79.00                   | 48.433            |                    |         |
| 11,400.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 62.15           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,894.54             | 3,814.92              | 79.62                   | 48.915            |                    |         |
| 11,500.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 63.91           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,964.25             | 3,884.04              | 80.21                   | 49.421            |                    |         |
| 11,600.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 65.69           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,035.24             | 3,954.45              | 80.78                   | 49.951            |                    |         |
| 11,700.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 67.47           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,107.43             | 4,026.10              | 81.33                   | 50.503            |                    |         |
| 11,800.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 69.28           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,180.77             | 4,098.91              | 81.85                   | 51.077            |                    |         |
| 11,900.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 71.09           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,255.19             | 4,172.84              | 82.35                   | 51.670            |                    |         |
| 12,000.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 72.92           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,330.65             | 4,247.81              | 82.83                   | 52.282            |                    |         |
| 12,100.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 74.76           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,407.08             | 4,323.79              | 83.29                   | 52.913            |                    |         |
| 12,200.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 76.61           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,484.44             | 4,400.71              | 83.73                   | 53.559            |                    |         |
| 12,300.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 78.47           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,562.68             | 4,478.53              | 84.15                   | 54.222            |                    |         |
| 12,400.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 80.34           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,641.75             | 4,557.20              | 84.55                   | 54.900            |                    |         |
| 12,500.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 82.22           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,721.62             | 4,636.69              | 84.93                   | 55.592            |                    |         |
| 12,600.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 84.11           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,802.24             | 4,716.94              | 85.30                   | 56.297            |                    |         |
| 12,700.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 86.00           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,883.58             | 4,797.93              | 85.66                   | 57.014            |                    |         |
| 12,800.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 87.90           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,965.60             | 4,879.61              | 85.99                   | 57.744            |                    |         |
| 12,900.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 89.81           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,048.27             | 4,961.96              | 86.32                   | 58.485            |                    |         |
| 13,000.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 91.72           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,131.56             | 5,044.93              | 86.63                   | 59.236            |                    |         |
| 13,100.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 93.64           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,215.43             | 5,128.51              | 86.93                   | 59.997            |                    |         |
| 13,200.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 95.56           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,299.87             | 5,212.65              | 87.21                   | 60.768            |                    |         |
| 13,300.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 97.49           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,384.83             | 5,297.34              | 87.49                   | 61.548            |                    |         |
| 13,400.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 99.42           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,470.31             | 5,382.55              | 87.76                   | 62.336            |                    |         |
| 13,500.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 101.36          | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,556.27             | 5,468.26              | 88.01                   | 63.132            |                    |         |
| 13,600.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 103.30          | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,642.69             | 5,554.43              | 88.26                   | 63.935            |                    |         |
| 13,700.00                    | 8,835.00            | 8,705.95            | 8,702.59            | 105.25          | 29.79       | 87.01                 | -1,799.15                         | -193.01    | 5,729.54             | 5,641.09              | 88.44                   | 64.782            |                    |         |
| 13,800.00                    | 8,835.00            | 8,705.47            | 8,702.11            | 107.20          | 29.79       | 87.01                 | -1,799.13                         | -193.01    | 5,816.82             | 5,728.15              | 88.67                   | 65.601            |                    |         |
| 13,900.00                    | 8,835.00            | 8,704.99            | 8,701.63            | 109.15          | 29.79       | 87.00                 | -1,799.11                         | -193.01    | 5,904.51             | 5,815.62              | 88.89                   | 66.427            |                    |         |
| 14,000.00                    | 8,835.00            | 8,704.51            | 8,701.15            | 111.10          | 29.79       | 86.99                 | -1,799.10                         | -193.00    | 5,992.58             | 5,903.49              | 89.10                   | 67.259            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 438-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 14,100.00                    | 8,835.00            | 8,704.03            | 8,700.68            | 113.06          | 29.79       | 86.98                 | -1,799.08                         | -193.00    | 6,081.03             | 5,991.73              | 89.30                   | 68.096            |                    |         |
| 14,200.00                    | 8,835.00            | 8,703.56            | 8,700.21            | 115.03          | 29.78       | 86.97                 | -1,799.06                         | -193.00    | 6,169.82             | 6,080.33              | 89.50                   | 68.939            |                    |         |
| 14,300.00                    | 8,835.00            | 8,703.09            | 8,699.74            | 116.99          | 29.78       | 86.96                 | -1,799.04                         | -192.99    | 6,258.96             | 6,169.27              | 89.69                   | 69.787            |                    |         |
| 14,400.00                    | 8,835.00            | 8,702.62            | 8,699.27            | 118.96          | 29.78       | 86.95                 | -1,799.02                         | -192.99    | 6,348.41             | 6,258.54              | 89.87                   | 70.640            |                    |         |
| 14,500.00                    | 8,835.00            | 8,702.16            | 8,698.81            | 120.93          | 29.78       | 86.94                 | -1,799.01                         | -192.99    | 6,438.18             | 6,348.13              | 90.05                   | 71.497            |                    |         |
| 14,600.00                    | 8,835.00            | 8,701.69            | 8,698.34            | 122.90          | 29.78       | 86.93                 | -1,798.99                         | -192.98    | 6,528.25             | 6,438.03              | 90.22                   | 72.359            |                    |         |
| 14,700.00                    | 8,835.00            | 8,701.23            | 8,697.88            | 124.88          | 29.78       | 86.92                 | -1,798.97                         | -192.98    | 6,618.60             | 6,528.21              | 90.39                   | 73.225            |                    |         |
| 14,800.00                    | 8,835.00            | 8,700.78            | 8,697.43            | 126.86          | 29.77       | 86.91                 | -1,798.95                         | -192.98    | 6,709.22             | 6,618.67              | 90.55                   | 74.095            |                    |         |
| 14,900.00                    | 8,835.00            | 8,700.32            | 8,696.97            | 128.84          | 29.77       | 86.90                 | -1,798.94                         | -192.97    | 6,800.11             | 6,709.40              | 90.71                   | 74.968            |                    |         |
| 15,000.00                    | 8,835.00            | 8,699.87            | 8,696.52            | 130.82          | 29.77       | 86.89                 | -1,798.92                         | -192.97    | 6,891.24             | 6,800.38              | 90.86                   | 75.845            |                    |         |
| 15,100.00                    | 8,835.00            | 8,699.42            | 8,696.07            | 132.80          | 29.77       | 86.88                 | -1,798.90                         | -192.97    | 6,982.63             | 6,891.62              | 91.01                   | 76.725            |                    |         |
| 15,200.00                    | 8,835.00            | 8,698.97            | 8,695.62            | 134.79          | 29.77       | 86.87                 | -1,798.88                         | -192.96    | 7,074.24             | 6,983.09              | 91.15                   | 77.609            |                    |         |
| 15,300.00                    | 8,835.00            | 8,698.53            | 8,695.18            | 136.78          | 29.77       | 86.86                 | -1,798.87                         | -192.96    | 7,166.08             | 7,074.79              | 91.29                   | 78.495            |                    |         |
| 15,400.00                    | 8,835.00            | 8,698.08            | 8,694.73            | 138.76          | 29.76       | 86.85                 | -1,798.85                         | -192.96    | 7,258.13             | 7,166.70              | 91.43                   | 79.384            |                    |         |
| 15,500.00                    | 8,835.00            | 8,697.64            | 8,694.29            | 140.76          | 29.76       | 86.85                 | -1,798.83                         | -192.95    | 7,350.40             | 7,258.83              | 91.57                   | 80.275            |                    |         |
| 15,600.00                    | 8,835.00            | 8,697.20            | 8,693.85            | 142.75          | 29.76       | 86.84                 | -1,798.82                         | -192.95    | 7,442.86             | 7,351.16              | 91.70                   | 81.169            |                    |         |
| 15,700.00                    | 8,835.00            | 8,696.77            | 8,693.42            | 144.74          | 29.76       | 86.83                 | -1,798.80                         | -192.95    | 7,535.51             | 7,443.69              | 91.82                   | 82.065            |                    |         |
| 15,800.00                    | 8,835.00            | 8,696.33            | 8,692.98            | 146.74          | 29.76       | 86.82                 | -1,798.79                         | -192.94    | 7,628.35             | 7,536.40              | 91.95                   | 82.964            |                    |         |
| 15,900.00                    | 8,835.00            | 8,695.90            | 8,692.55            | 148.73          | 29.76       | 86.81                 | -1,798.77                         | -192.94    | 7,721.37             | 7,629.30              | 92.07                   | 83.864            |                    |         |
| 16,000.00                    | 8,835.00            | 8,695.47            | 8,692.12            | 150.73          | 29.76       | 86.80                 | -1,798.75                         | -192.94    | 7,814.56             | 7,722.37              | 92.19                   | 84.767            |                    |         |
| 16,100.00                    | 8,835.00            | 8,695.04            | 8,691.70            | 152.73          | 29.75       | 86.79                 | -1,798.74                         | -192.94    | 7,907.92             | 7,815.61              | 92.31                   | 85.671            |                    |         |
| 16,200.00                    | 8,835.00            | 8,694.62            | 8,691.27            | 154.73          | 29.75       | 86.78                 | -1,798.72                         | -192.93    | 8,001.44             | 7,909.02              | 92.42                   | 86.577            |                    |         |
| 16,300.00                    | 8,835.00            | 8,694.20            | 8,690.85            | 156.73          | 29.75       | 86.78                 | -1,798.71                         | -192.93    | 8,095.11             | 8,002.58              | 92.53                   | 87.484            |                    |         |
| 16,400.00                    | 8,835.00            | 8,693.78            | 8,690.43            | 158.74          | 29.75       | 86.77                 | -1,798.69                         | -192.93    | 8,188.93             | 8,096.29              | 92.64                   | 88.393            |                    |         |
| 16,500.00                    | 8,835.00            | 8,693.36            | 8,690.01            | 160.74          | 29.75       | 86.76                 | -1,798.67                         | -192.92    | 8,282.90             | 8,190.15              | 92.75                   | 89.303            |                    |         |
| 16,600.00                    | 8,835.00            | 8,692.94            | 8,689.59            | 162.74          | 29.75       | 86.75                 | -1,798.66                         | -192.92    | 8,377.00             | 8,284.15              | 92.86                   | 90.214            |                    |         |
| 16,700.00                    | 8,835.00            | 8,692.53            | 8,689.18            | 164.75          | 29.74       | 86.74                 | -1,798.64                         | -192.92    | 8,471.25             | 8,378.28              | 92.96                   | 91.127            |                    |         |
| 16,800.00                    | 8,835.00            | 8,692.11            | 8,688.77            | 166.76          | 29.74       | 86.73                 | -1,798.63                         | -192.92    | 8,565.62             | 8,472.55              | 93.06                   | 92.041            |                    |         |
| 16,900.00                    | 8,835.00            | 8,691.70            | 8,688.36            | 168.77          | 29.74       | 86.73                 | -1,798.61                         | -192.91    | 8,660.12             | 8,566.95              | 93.16                   | 92.955            |                    |         |
| 17,000.00                    | 8,835.00            | 8,691.30            | 8,687.95            | 170.77          | 29.74       | 86.72                 | -1,798.60                         | -192.91    | 8,754.74             | 8,661.47              | 93.26                   | 93.871            |                    |         |
| 17,100.00                    | 8,835.00            | 8,690.89            | 8,687.55            | 172.78          | 29.74       | 86.71                 | -1,798.58                         | -192.91    | 8,849.48             | 8,756.11              | 93.36                   | 94.787            |                    |         |
| 17,200.00                    | 8,835.00            | 8,690.49            | 8,687.14            | 174.79          | 29.74       | 86.70                 | -1,798.57                         | -192.90    | 8,944.33             | 8,850.87              | 93.46                   | 95.705            |                    |         |
| 17,300.00                    | 8,835.00            | 8,690.08            | 8,686.74            | 176.81          | 29.74       | 86.69                 | -1,798.55                         | -192.90    | 9,039.29             | 8,945.74              | 93.55                   | 96.622            |                    |         |
| 17,400.00                    | 8,835.00            | 8,689.68            | 8,686.34            | 178.82          | 29.73       | 86.68                 | -1,798.54                         | -192.90    | 9,134.36             | 9,040.72              | 93.65                   | 97.541            |                    |         |
| 17,500.00                    | 8,835.00            | 8,689.29            | 8,685.94            | 180.83          | 29.73       | 86.68                 | -1,798.52                         | -192.90    | 9,229.54             | 9,135.80              | 93.74                   | 98.460            |                    |         |
| 17,600.00                    | 8,835.00            | 8,688.89            | 8,685.55            | 182.84          | 29.73       | 86.67                 | -1,798.51                         | -192.89    | 9,324.82             | 9,230.99              | 93.83                   | 99.379            |                    |         |
| 17,700.00                    | 8,835.00            | 8,688.50            | 8,685.15            | 184.86          | 29.73       | 86.66                 | -1,798.50                         | -192.89    | 9,420.19             | 9,326.27              | 93.92                   | 100.299           |                    |         |
| 17,800.00                    | 8,835.00            | 8,688.10            | 8,684.76            | 186.87          | 29.73       | 86.65                 | -1,798.48                         | -192.89    | 9,515.66             | 9,421.65              | 94.01                   | 101.219           |                    |         |
| 17,900.00                    | 8,835.00            | 8,687.71            | 8,684.37            | 188.89          | 29.73       | 86.64                 | -1,798.47                         | -192.89    | 9,611.22             | 9,517.12              | 94.10                   | 102.140           |                    |         |
| 18,000.00                    | 8,835.00            | 8,687.33            | 8,683.98            | 190.91          | 29.73       | 86.64                 | -1,798.45                         | -192.88    | 9,706.87             | 9,612.69              | 94.19                   | 103.060           |                    |         |
| 18,100.00                    | 8,835.00            | 8,686.94            | 8,683.60            | 192.92          | 29.72       | 86.63                 | -1,798.44                         | -192.88    | 9,802.61             | 9,708.34              | 94.27                   | 103.981           |                    |         |
| 18,200.00                    | 8,835.00            | 8,686.56            | 8,683.21            | 194.94          | 29.72       | 86.62                 | -1,798.42                         | -192.88    | 9,898.43             | 9,804.08              | 94.36                   | 104.902           |                    |         |
| 18,300.00                    | 8,835.00            | 8,686.17            | 8,682.83            | 196.96          | 29.72       | 86.61                 | -1,798.41                         | -192.88    | 9,994.34             | 9,899.89              | 94.44                   | 105.823           |                    |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                       | 0.00                | 10.80               | 10.80               | 0.50            | 0.50        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             |                       |                         |                   |                    |         |
| 100.00                     | 100.00              | 110.80              | 110.80              | 0.52            | 0.53        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,527.64              | 1.05                    | 1,460.224         |                    |         |
| 200.00                     | 200.00              | 210.80              | 210.80              | 0.70            | 0.73        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,527.25              | 1.43                    | 1,067.588         |                    |         |
| 300.00                     | 300.00              | 310.80              | 310.80              | 0.99            | 1.02        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,526.68              | 2.01                    | 761.206           |                    |         |
| 400.00                     | 400.00              | 410.80              | 410.80              | 1.31            | 1.34        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,526.03              | 2.65                    | 575.985           |                    |         |
| 500.00                     | 500.00              | 510.80              | 510.80              | 1.65            | 1.68        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,525.36              | 3.33                    | 459.189           |                    |         |
| 600.00                     | 600.00              | 610.80              | 610.80              | 1.99            | 2.03        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,524.67              | 4.02                    | 380.393           |                    |         |
| 700.00                     | 700.00              | 710.80              | 710.80              | 2.34            | 2.38        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,523.97              | 4.72                    | 324.117           |                    |         |
| 800.00                     | 800.00              | 810.80              | 810.80              | 2.69            | 2.73        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,523.27              | 5.42                    | 282.085           |                    |         |
| 900.00                     | 900.00              | 910.80              | 910.80              | 3.04            | 3.08        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,522.56              | 6.13                    | 249.569           |                    |         |
| 1,000.00                   | 1,000.00            | 1,010.80            | 1,010.80            | 3.40            | 3.44        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,521.85              | 6.83                    | 223.701           |                    |         |
| 1,100.00                   | 1,100.00            | 1,110.80            | 1,110.80            | 3.75            | 3.79        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,521.14              | 7.54                    | 202.647           |                    |         |
| 1,200.00                   | 1,200.00            | 1,210.80            | 1,210.80            | 4.11            | 4.15        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,520.43              | 8.25                    | 185.189           |                    |         |
| 1,300.00                   | 1,300.00            | 1,310.80            | 1,310.80            | 4.46            | 4.50        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,519.72              | 8.97                    | 170.483           |                    |         |
| 1,400.00                   | 1,400.00            | 1,410.80            | 1,410.80            | 4.82            | 4.86        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,519.01              | 9.68                    | 157.928           |                    |         |
| 1,500.00                   | 1,500.00            | 1,510.80            | 1,510.80            | 5.18            | 5.22        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,518.29              | 10.39                   | 147.088           |                    |         |
| 1,600.00                   | 1,600.00            | 1,610.80            | 1,610.80            | 5.53            | 5.57        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,517.58              | 11.11                   | 137.635           |                    |         |
| 1,700.00                   | 1,700.00            | 1,710.80            | 1,710.80            | 5.89            | 5.93        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,516.87              | 11.82                   | 129.319           |                    |         |
| 1,800.00                   | 1,800.00            | 1,810.80            | 1,810.80            | 6.25            | 6.29        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,516.15              | 12.54                   | 121.948           |                    |         |
| 1,900.00                   | 1,900.00            | 1,910.80            | 1,910.80            | 6.61            | 6.64        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,515.44              | 13.25                   | 115.370           |                    |         |
| 2,000.00                   | 2,000.00            | 2,010.80            | 2,010.80            | 6.96            | 7.00        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,514.72              | 13.97                   | 109.463           |                    |         |
| 2,100.00                   | 2,099.99            | 2,110.79            | 2,110.79            | 7.32            | 7.36        | 12.66                 | 1,528.68                          | -3.38      | 1,527.84             | 1,513.16              | 14.68                   | 104.074           |                    |         |
| 2,200.00                   | 2,199.96            | 2,210.76            | 2,210.76            | 7.68            | 7.72        | 12.69                 | 1,528.68                          | -3.38      | 1,525.28             | 1,509.89              | 15.40                   | 99.075            |                    |         |
| 2,300.00                   | 2,299.86            | 2,310.66            | 2,310.66            | 8.04            | 8.07        | 12.73                 | 1,528.68                          | -3.38      | 1,521.03             | 1,504.92              | 16.11                   | 94.414            |                    |         |
| 2,400.00                   | 2,399.68            | 2,398.15            | 2,398.15            | 8.39            | 8.39        | 12.79                 | 1,528.68                          | -3.43      | 1,515.32             | 1,498.54              | 16.78                   | 90.305            |                    |         |
| 2,500.00                   | 2,499.37            | 2,477.64            | 2,477.63            | 8.75            | 8.67        | 12.84                 | 1,530.06                          | -3.74      | 1,509.15             | 1,491.73              | 17.42                   | 86.639            |                    |         |
| 2,600.00                   | 2,598.90            | 2,557.19            | 2,557.15            | 9.11            | 8.96        | 12.90                 | 1,532.31                          | -4.32      | 1,502.62             | 1,484.57              | 18.06                   | 83.222            |                    |         |
| 2,700.00                   | 2,698.26            | 2,636.80            | 2,636.68            | 9.46            | 9.24        | 12.96                 | 1,535.63                          | -5.19      | 1,495.74             | 1,477.05              | 18.69                   | 80.028            |                    |         |
| 2,800.00                   | 2,797.40            | 2,716.46            | 2,716.21            | 9.82            | 9.53        | 13.02                 | 1,540.02                          | -6.33      | 1,488.50             | 1,469.18              | 19.32                   | 77.033            |                    |         |
| 2,900.00                   | 2,896.30            | 2,796.18            | 2,795.73            | 10.18           | 9.81        | 13.09                 | 1,545.49                          | -7.75      | 1,480.91             | 1,460.96              | 19.95                   | 74.218            |                    |         |
| 3,000.00                   | 2,994.93            | 2,875.98            | 2,875.24            | 10.54           | 10.09       | 13.15                 | 1,552.03                          | -9.45      | 1,472.97             | 1,452.39              | 20.58                   | 71.564            |                    |         |
| 3,100.00                   | 3,093.26            | 2,955.84            | 2,954.71            | 10.90           | 10.38       | 13.22                 | 1,559.65                          | -11.43     | 1,464.68             | 1,443.47              | 21.21                   | 69.056            |                    |         |
| 3,195.07                   | 3,186.42            | 3,031.82            | 3,030.21            | 11.24           | 10.65       | 13.29                 | 1,567.90                          | -13.57     | 1,456.47             | 1,434.66              | 21.81                   | 66.794            |                    |         |
| 3,200.00                   | 3,191.25            | 3,035.77            | 3,034.13            | 11.26           | 10.67       | 13.30                 | 1,568.36                          | -13.69     | 1,456.04             | 1,434.20              | 21.84                   | 66.679            |                    |         |
| 3,300.00                   | 3,289.08            | 3,115.84            | 3,113.56            | 11.62           | 10.95       | 13.34                 | 1,578.15                          | -16.23     | 1,447.98             | 1,425.52              | 22.46                   | 64.465            |                    |         |
| 3,400.00                   | 3,386.91            | 3,196.07            | 3,193.00            | 11.98           | 11.24       | 13.38                 | 1,589.03                          | -19.06     | 1,441.27             | 1,418.18              | 23.09                   | 62.431            |                    |         |
| 3,500.00                   | 3,484.74            | 3,276.45            | 3,272.42            | 12.35           | 11.52       | 13.40                 | 1,601.02                          | -22.18     | 1,435.91             | 1,412.20              | 23.71                   | 60.563            |                    |         |
| 3,600.00                   | 3,582.58            | 3,356.93            | 3,351.75            | 12.72           | 11.81       | 13.42                 | 1,614.10                          | -25.58     | 1,431.90             | 1,407.57              | 24.33                   | 58.848            |                    |         |
| 3,700.00                   | 3,680.41            | 3,445.03            | 3,438.40            | 13.09           | 12.13       | 13.42                 | 1,629.53                          | -29.59     | 1,429.15             | 1,404.15              | 25.00                   | 57.175            |                    |         |
| 3,800.00                   | 3,778.24            | 3,545.00            | 3,536.68            | 13.46           | 12.49       | 13.42                 | 1,647.26                          | -34.20     | 1,426.65             | 1,400.92              | 25.73                   | 55.451            |                    |         |
| 3,900.00                   | 3,876.08            | 3,644.97            | 3,634.95            | 13.83           | 12.85       | 13.42                 | 1,664.99                          | -38.81     | 1,424.15             | 1,397.69              | 26.46                   | 53.817            |                    |         |
| 4,000.00                   | 3,973.91            | 3,744.94            | 3,733.23            | 14.21           | 13.21       | 13.42                 | 1,682.73                          | -43.41     | 1,421.65             | 1,394.45              | 27.20                   | 52.268            |                    |         |
| 4,100.00                   | 4,071.74            | 3,844.90            | 3,831.50            | 14.58           | 13.57       | 13.42                 | 1,700.46                          | -48.02     | 1,419.15             | 1,391.21              | 27.94                   | 50.798            |                    |         |
| 4,200.00                   | 4,169.57            | 3,944.87            | 3,929.78            | 14.96           | 13.94       | 13.42                 | 1,718.19                          | -52.63     | 1,416.65             | 1,387.97              | 28.68                   | 49.400            |                    |         |
| 4,300.00                   | 4,267.41            | 4,044.84            | 4,028.05            | 15.33           | 14.31       | 13.42                 | 1,735.93                          | -57.24     | 1,414.15             | 1,384.73              | 29.42                   | 48.070            |                    |         |
| 4,400.00                   | 4,365.24            | 4,144.81            | 4,126.33            | 15.71           | 14.67       | 13.42                 | 1,753.66                          | -61.85     | 1,411.65             | 1,381.49              | 30.16                   | 46.803            |                    |         |
| 4,500.00                   | 4,463.07            | 4,244.78            | 4,224.60            | 16.09           | 15.04       | 13.42                 | 1,771.40                          | -66.46     | 1,409.15             | 1,378.25              | 30.91                   | 45.595            |                    |         |
| 4,600.00                   | 4,560.90            | 4,344.75            | 4,322.88            | 16.47           | 15.41       | 13.42                 | 1,789.13                          | -71.07     | 1,406.65             | 1,375.00              | 31.65                   | 44.442            |                    |         |
| 4,700.00                   | 4,658.74            | 4,444.72            | 4,421.15            | 16.85           | 15.78       | 13.42                 | 1,806.86                          | -75.68     | 1,404.15             | 1,371.75              | 32.40                   | 43.340            |                    |         |
| 4,800.00                   | 4,756.57            | 4,544.69            | 4,519.43            | 17.23           | 16.15       | 13.42                 | 1,824.60                          | -80.28     | 1,401.65             | 1,368.51              | 33.15                   | 42.287            |                    |         |
| 4,900.00                   | 4,854.40            | 4,644.65            | 4,617.70            | 17.61           | 16.52       | 13.43                 | 1,842.33                          | -84.89     | 1,399.15             | 1,365.26              | 33.89                   | 41.279            |                    |         |
| 5,000.00                   | 4,952.23            | 4,744.62            | 4,715.98            | 17.99           | 16.89       | 13.43                 | 1,860.06                          | -89.50     | 1,396.65             | 1,362.01              | 34.64                   | 40.314            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                   | 5,050.07            | 4,844.59            | 4,814.25            | 18.37           | 17.27       | 13.43                 | 1,877.80                          | -94.11     | 1,394.15             | 1,358.76              | 35.40                   | 39.388            |                    |         |
| 5,200.00                   | 5,147.90            | 4,944.56            | 4,912.53            | 18.75           | 17.64       | 13.43                 | 1,895.53                          | -98.72     | 1,391.65             | 1,355.51              | 36.15                   | 38.500            |                    |         |
| 5,300.00                   | 5,245.73            | 5,044.53            | 5,010.80            | 19.14           | 18.01       | 13.43                 | 1,913.27                          | -103.33    | 1,389.15             | 1,352.26              | 36.90                   | 37.648            |                    |         |
| 5,400.00                   | 5,343.56            | 5,144.50            | 5,109.08            | 19.52           | 18.39       | 13.43                 | 1,931.00                          | -107.94    | 1,386.65             | 1,349.00              | 37.65                   | 36.828            |                    |         |
| 5,500.00                   | 5,441.40            | 5,244.47            | 5,207.35            | 19.90           | 18.76       | 13.43                 | 1,948.73                          | -112.55    | 1,384.15             | 1,345.75              | 38.41                   | 36.041            |                    |         |
| 5,600.00                   | 5,539.23            | 5,344.44            | 5,305.63            | 20.29           | 19.14       | 13.43                 | 1,966.47                          | -117.15    | 1,381.65             | 1,342.49              | 39.16                   | 35.282            |                    |         |
| 5,700.00                   | 5,637.06            | 5,444.40            | 5,403.90            | 20.67           | 19.51       | 13.43                 | 1,984.20                          | -121.76    | 1,379.15             | 1,339.24              | 39.91                   | 34.553            |                    |         |
| 5,800.00                   | 5,734.90            | 5,544.37            | 5,502.18            | 21.05           | 19.89       | 13.43                 | 2,001.94                          | -126.37    | 1,376.66             | 1,335.99              | 40.67                   | 33.849            |                    |         |
| 5,900.00                   | 5,832.73            | 5,644.34            | 5,600.46            | 21.44           | 20.26       | 13.43                 | 2,019.67                          | -130.98    | 1,374.16             | 1,332.73              | 41.43                   | 33.171            |                    |         |
| 6,000.00                   | 5,930.56            | 5,744.31            | 5,698.73            | 21.83           | 20.64       | 13.43                 | 2,037.40                          | -135.59    | 1,371.66             | 1,329.47              | 42.18                   | 32.517            |                    |         |
| 6,100.00                   | 6,028.39            | 5,844.28            | 5,797.01            | 22.21           | 21.02       | 13.43                 | 2,055.14                          | -140.20    | 1,369.16             | 1,326.22              | 42.94                   | 31.885            |                    |         |
| 6,200.00                   | 6,126.23            | 5,944.25            | 5,895.28            | 22.60           | 21.39       | 13.43                 | 2,072.87                          | -144.81    | 1,366.66             | 1,322.96              | 43.70                   | 31.276            |                    |         |
| 6,300.00                   | 6,224.06            | 6,044.22            | 5,993.56            | 22.98           | 21.77       | 13.43                 | 2,090.60                          | -149.42    | 1,364.16             | 1,319.70              | 44.46                   | 30.686            |                    |         |
| 6,400.00                   | 6,321.89            | 6,144.19            | 6,091.83            | 23.37           | 22.15       | 13.43                 | 2,108.34                          | -154.02    | 1,361.66             | 1,316.44              | 45.21                   | 30.116            |                    |         |
| 6,500.00                   | 6,419.72            | 6,244.15            | 6,190.11            | 23.76           | 22.53       | 13.43                 | 2,126.07                          | -158.63    | 1,359.16             | 1,313.18              | 45.97                   | 29.565            |                    |         |
| 6,600.00                   | 6,517.56            | 6,344.12            | 6,288.38            | 24.14           | 22.91       | 13.43                 | 2,143.81                          | -163.24    | 1,356.66             | 1,309.93              | 46.73                   | 29.031            |                    |         |
| 6,700.00                   | 6,615.39            | 6,444.09            | 6,386.66            | 24.53           | 23.28       | 13.43                 | 2,161.54                          | -167.85    | 1,354.16             | 1,306.67              | 47.49                   | 28.514            |                    |         |
| 6,800.00                   | 6,713.22            | 6,544.06            | 6,484.93            | 24.92           | 23.66       | 13.43                 | 2,179.27                          | -172.46    | 1,351.66             | 1,303.41              | 48.25                   | 28.013            |                    |         |
| 6,900.00                   | 6,811.05            | 6,644.03            | 6,583.21            | 25.30           | 24.04       | 13.43                 | 2,197.01                          | -177.07    | 1,349.16             | 1,300.15              | 49.01                   | 27.528            |                    |         |
| 7,000.00                   | 6,908.89            | 6,744.00            | 6,681.48            | 25.69           | 24.42       | 13.43                 | 2,214.74                          | -181.68    | 1,346.66             | 1,296.89              | 49.77                   | 27.057            |                    |         |
| 7,100.00                   | 7,006.72            | 6,843.97            | 6,779.76            | 26.08           | 24.80       | 13.43                 | 2,232.47                          | -186.29    | 1,344.16             | 1,293.63              | 50.53                   | 26.600            |                    |         |
| 7,200.00                   | 7,104.55            | 6,943.94            | 6,878.03            | 26.47           | 25.18       | 13.43                 | 2,250.21                          | -190.90    | 1,341.66             | 1,290.37              | 51.29                   | 26.157            |                    |         |
| 7,216.87                   | 7,121.05            | 6,960.80            | 6,894.61            | 26.53           | 25.24       | 13.43                 | 2,253.20                          | -191.67    | 1,341.24             | 1,289.82              | 51.42                   | 26.083            |                    |         |
| 7,300.00                   | 7,202.57            | 7,043.92            | 6,976.32            | 26.85           | 25.56       | 13.42                 | 2,267.95                          | -195.50    | 1,340.04             | 1,287.99              | 52.05                   | 25.744            |                    |         |
| 7,315.04                   | 7,217.35            | 7,058.96            | 6,991.11            | 26.91           | 25.62       | 13.42                 | 2,270.61                          | -196.20    | 1,340.01             | 1,287.84              | 52.17                   | 25.687 CC         |                    |         |
| 7,400.00                   | 7,301.06            | 7,143.91            | 7,074.62            | 27.23           | 25.94       | 13.39                 | 2,285.68                          | -200.11    | 1,340.93             | 1,288.12              | 52.81                   | 25.392            |                    |         |
| 7,500.00                   | 7,399.97            | 7,243.84            | 7,172.86            | 27.61           | 26.32       | 13.34                 | 2,303.41                          | -204.72    | 1,344.37             | 1,290.81              | 53.56                   | 25.100            |                    |         |
| 7,600.00                   | 7,499.23            | 7,343.64            | 7,270.96            | 27.98           | 26.70       | 13.28                 | 2,321.11                          | -209.32    | 1,350.35             | 1,296.05              | 54.30                   | 24.866            |                    |         |
| 7,700.00                   | 7,598.77            | 7,443.24            | 7,368.87            | 28.34           | 27.08       | 13.20                 | 2,338.78                          | -213.91    | 1,358.88             | 1,303.84              | 55.04                   | 24.688            |                    |         |
| 7,800.00                   | 7,698.53            | 7,558.57            | 7,482.30            | 28.70           | 27.52       | 13.08                 | 2,358.98                          | -219.16    | 1,369.78             | 1,313.92              | 55.86                   | 24.521            |                    |         |
| 7,900.00                   | 7,798.44            | 7,711.08            | 7,633.04            | 29.05           | 28.09       | 12.93                 | 2,381.37                          | -224.98    | 1,380.31             | 1,323.49              | 56.83                   | 24.290            |                    |         |
| 8,000.00                   | 7,898.42            | 7,864.43            | 7,785.42            | 29.39           | 28.65       | 12.80                 | 2,397.99                          | -229.30    | 1,389.54             | 1,331.83              | 57.71                   | 24.077            |                    |         |
| 8,013.58                   | 7,912.00            | 7,885.32            | 7,806.22            | 29.43           | 28.73       | 0.01                  | 2,399.79                          | -229.77    | 1,390.69             | 1,332.86              | 57.83                   | 24.050            |                    |         |
| 8,100.00                   | 7,998.42            | 8,018.62            | 7,939.20            | 29.73           | 29.20       | -0.09                 | 2,408.72                          | -232.09    | 1,396.48             | 1,337.96              | 58.52                   | 23.864            |                    |         |
| 8,200.00                   | 8,098.42            | 8,173.46            | 8,093.95            | 30.07           | 29.75       | -0.14                 | 2,413.45                          | -233.32    | 1,399.54             | 1,340.29              | 59.25                   | 23.623            |                    |         |
| 8,300.00                   | 8,198.42            | 8,288.74            | 8,209.22            | 30.41           | 30.15       | -0.14                 | 2,413.68                          | -233.38    | 1,399.69             | 1,339.75              | 59.93                   | 23.354            |                    |         |
| 8,363.62                   | 8,262.04            | 8,352.35            | 8,272.84            | 30.62           | 30.36       | -0.14                 | 2,413.68                          | -233.38    | 1,399.69             | 1,339.31              | 60.37                   | 23.184            |                    |         |
| 8,400.00                   | 8,298.40            | 8,388.71            | 8,309.20            | 30.75           | 30.49       | -89.84                | 2,413.68                          | -233.38    | 1,399.68             | 1,339.06              | 60.62                   | 23.090            |                    |         |
| 8,439.07                   | 8,337.27            | 8,427.59            | 8,348.07            | 30.87           | 30.62       | -90.00                | 2,413.68                          | -233.38    | 1,399.68             | 1,338.80              | 60.88                   | 22.991            |                    |         |
| 8,450.00                   | 8,348.10            | 8,438.41            | 8,358.90            | 30.91           | 30.66       | -90.06                | 2,413.68                          | -233.38    | 1,399.68             | 1,338.73              | 60.95                   | 22.964            |                    |         |
| 8,500.00                   | 8,397.14            | 8,487.45            | 8,407.94            | 31.07           | 30.83       | -90.45                | 2,413.68                          | -233.38    | 1,399.72             | 1,338.44              | 61.28                   | 22.842            |                    |         |
| 8,550.00                   | 8,445.15            | 8,535.47            | 8,455.95            | 31.23           | 31.00       | -90.97                | 2,413.68                          | -233.38    | 1,399.90             | 1,338.30              | 61.60                   | 22.726            |                    |         |
| 8,600.00                   | 8,491.77            | 8,583.35            | 8,503.83            | 31.38           | 31.16       | -91.63                | 2,413.68                          | -233.13    | 1,400.34             | 1,338.43              | 61.91                   | 22.619            |                    |         |
| 8,650.00                   | 8,536.65            | 8,634.39            | 8,554.72            | 31.52           | 31.33       | -92.34                | 2,413.71                          | -229.37    | 1,401.03             | 1,338.83              | 62.20                   | 22.525            |                    |         |
| 8,700.00                   | 8,579.43            | 8,687.40            | 8,606.99            | 31.66           | 31.50       | -93.05                | 2,413.76                          | -220.68    | 1,401.97             | 1,339.49              | 62.48                   | 22.440            |                    |         |
| 8,750.00                   | 8,619.80            | 8,742.57            | 8,660.30            | 31.80           | 31.68       | -93.75                | 2,413.84                          | -206.56    | 1,403.12             | 1,340.38              | 62.74                   | 22.365            |                    |         |
| 8,800.00                   | 8,657.44            | 8,800.11            | 8,714.18            | 31.93           | 31.86       | -94.44                | 2,413.96                          | -186.43    | 1,404.47             | 1,341.48              | 62.99                   | 22.298            |                    |         |
| 8,850.00                   | 8,692.08            | 8,860.21            | 8,768.01            | 32.06           | 32.04       | -95.12                | 2,414.12                          | -159.76    | 1,405.97             | 1,342.75              | 63.22                   | 22.240            |                    |         |
| 8,900.00                   | 8,723.44            | 8,923.04            | 8,820.97            | 32.19           | 32.22       | -95.77                | 2,414.32                          | -126.01    | 1,407.57             | 1,344.13              | 63.44                   | 22.188            |                    |         |
| 8,950.00                   | 8,751.29            | 8,988.73            | 8,872.04            | 32.34           | 32.40       | -96.40                | 2,414.57                          | -84.76     | 1,409.21             | 1,345.55              | 63.66                   | 22.137            |                    |         |
| 9,000.00                   | 8,775.42            | 9,057.31            | 8,919.95            | 32.50           | 32.59       | -96.98                | 2,414.86                          | -35.75     | 1,410.83             | 1,346.94              | 63.89                   | 22.083            |                    |         |
| 9,050.00                   | 8,795.64            | 9,128.74            | 8,963.26            | 32.67           | 32.80       | -97.50                | 2,415.20                          | 21.00      | 1,412.34             | 1,348.19              | 64.15                   | 22.017            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |        | Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 621H - Wellbore #1 - Permit Plan 1 |         | Offset Site Error: |  | 0.00 ft |
|----------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|--------|--------------------------------------------------------------------------------------|---------|--------------------|--|---------|
| Survey Program: 0-MWD+IFR1 |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |        |                                                                                      |         | Offset Well Error: |  | 0.50 ft |
| Reference                  |                | Offset         |                | Semi Major Axis |        |                   | Distance               |                 |                  |                    |                   |        |                                                                                      | Warning |                    |  |         |
| Measured Depth             | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor |        |                                                                                      |         |                    |  |         |
| (ft)                       | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft)      | (ft)             | (ft)               | (ft)              |        |                                                                                      |         |                    |  |         |
| 9,100.00                   | 8,811.80       | 9,202.84       | 9,000.37       | 32.87           | 33.05  | -97.95            | 2,415.58               | 85.07           | 1,413.67         | 1,349.21           | 64.46             | 21.930 |                                                                                      |         |                    |  |         |
| 9,150.00                   | 8,823.77       | 9,279.25       | 9,029.66       | 33.10           | 33.35  | -98.30            | 2,416.00               | 155.59          | 1,414.76         | 1,349.89           | 64.86             | 21.811 |                                                                                      |         |                    |  |         |
| 9,200.00                   | 8,831.47       | 9,357.49       | 9,049.65       | 33.34           | 33.69  | -98.55            | 2,416.45               | 231.16          | 1,415.52         | 1,350.16           | 65.37             | 21.656 |                                                                                      |         |                    |  |         |
| 9,250.00                   | 8,834.84       | 9,436.90       | 9,059.23       | 33.60           | 34.09  | -98.68            | 2,416.92               | 309.92          | 1,415.93         | 1,349.94           | 65.99             | 21.457 |                                                                                      |         |                    |  |         |
| 9,263.62                   | 8,835.00       | 9,458.63       | 9,059.94       | 33.67           | 34.21  | -98.70            | 2,417.05               | 331.65          | 1,415.97         | 1,349.79           | 66.18             | 21.397 |                                                                                      |         |                    |  |         |
| 9,300.00                   | 8,835.00       | 9,502.02       | 9,060.00       | 33.88           | 34.45  | -98.70            | 2,417.28               | 370.99          | 1,415.97         | 1,349.35           | 66.62             | 21.253 |                                                                                      |         |                    |  |         |
| 9,400.00                   | 8,835.00       | 9,597.98       | 9,060.00       | 34.53           | 35.07  | -98.70            | 2,417.88               | 470.99          | 1,415.97         | 1,348.10           | 67.87             | 20.862 |                                                                                      |         |                    |  |         |
| 9,500.00                   | 8,835.00       | 9,702.02       | 9,060.00       | 35.30           | 35.85  | -98.70            | 2,418.48               | 570.98          | 1,415.97         | 1,346.58           | 69.39             | 20.405 |                                                                                      |         |                    |  |         |
| 9,600.00                   | 8,835.00       | 9,802.02       | 9,060.00       | 36.17           | 36.70  | -98.70            | 2,419.07               | 670.98          | 1,415.97         | 1,344.89           | 71.09             | 19.919 |                                                                                      |         |                    |  |         |
| 9,700.00                   | 8,835.00       | 9,902.02       | 9,060.00       | 37.13           | 37.65  | -98.70            | 2,419.67               | 770.98          | 1,415.97         | 1,343.01           | 72.96             | 19.407 |                                                                                      |         |                    |  |         |
| 9,800.00                   | 8,835.00       | 10,002.02      | 9,060.00       | 38.18           | 38.69  | -98.70            | 2,420.26               | 870.98          | 1,415.97         | 1,340.96           | 75.01             | 18.877 |                                                                                      |         |                    |  |         |
| 9,900.00                   | 8,835.00       | 10,102.02      | 9,060.00       | 39.31           | 39.80  | -98.70            | 2,420.86               | 970.98          | 1,415.97         | 1,338.75           | 77.22             | 18.337 |                                                                                      |         |                    |  |         |
| 10,000.00                  | 8,835.00       | 10,202.02      | 9,060.00       | 40.51           | 40.98  | -98.70            | 2,421.46               | 1,070.98        | 1,415.97         | 1,336.40           | 79.57             | 17.795 |                                                                                      |         |                    |  |         |
| 10,100.00                  | 8,835.00       | 10,302.02      | 9,060.00       | 41.78           | 42.24  | -98.70            | 2,422.05               | 1,170.97        | 1,415.97         | 1,333.92           | 82.06             | 17.256 |                                                                                      |         |                    |  |         |
| 10,200.00                  | 8,835.00       | 10,402.02      | 9,060.00       | 43.10           | 43.55  | -98.70            | 2,422.65               | 1,270.97        | 1,415.97         | 1,331.31           | 84.66             | 16.725 |                                                                                      |         |                    |  |         |
| 10,300.00                  | 8,835.00       | 10,502.02      | 9,060.00       | 44.49           | 44.91  | -98.70            | 2,423.24               | 1,370.97        | 1,415.97         | 1,328.59           | 87.38             | 16.205 |                                                                                      |         |                    |  |         |
| 10,400.00                  | 8,835.00       | 10,602.02      | 9,060.00       | 45.92           | 46.33  | -98.70            | 2,423.84               | 1,470.97        | 1,415.97         | 1,325.78           | 90.20             | 15.699 |                                                                                      |         |                    |  |         |
| 10,500.00                  | 8,835.00       | 10,697.98      | 9,060.00       | 47.39           | 47.73  | -98.70            | 2,424.44               | 1,570.97        | 1,415.97         | 1,322.93           | 93.04             | 15.218 |                                                                                      |         |                    |  |         |
| 10,600.00                  | 8,835.00       | 10,797.98      | 9,060.00       | 48.91           | 49.24  | -98.70            | 2,425.03               | 1,670.97        | 1,415.97         | 1,319.94           | 96.03             | 14.745 |                                                                                      |         |                    |  |         |
| 10,700.00                  | 8,835.00       | 10,902.02      | 9,060.00       | 50.47           | 50.84  | -98.70            | 2,425.63               | 1,770.96        | 1,415.97         | 1,316.81           | 99.16             | 14.280 |                                                                                      |         |                    |  |         |
| 10,800.00                  | 8,835.00       | 10,997.98      | 9,060.00       | 52.06           | 52.35  | -98.70            | 2,426.22               | 1,870.96        | 1,415.97         | 1,313.74           | 102.23            | 13.851 |                                                                                      |         |                    |  |         |
| 10,900.00                  | 8,835.00       | 11,102.02      | 9,060.00       | 53.68           | 54.03  | -98.70            | 2,426.82               | 1,970.96        | 1,415.97         | 1,310.48           | 105.49            | 13.423 |                                                                                      |         |                    |  |         |
| 11,000.00                  | 8,835.00       | 11,197.98      | 9,060.00       | 55.32           | 55.60  | -98.70            | 2,427.41               | 2,070.96        | 1,415.97         | 1,307.29           | 108.68            | 13.029 |                                                                                      |         |                    |  |         |
| 11,100.00                  | 8,835.00       | 11,302.02      | 9,060.00       | 57.00           | 57.33  | -98.70            | 2,428.01               | 2,170.96        | 1,415.97         | 1,303.92           | 112.05            | 12.637 |                                                                                      |         |                    |  |         |
| 11,200.00                  | 8,835.00       | 11,402.02      | 9,060.00       | 58.70           | 59.01  | -98.70            | 2,428.61               | 2,270.95        | 1,415.97         | 1,300.57           | 115.40            | 12.270 |                                                                                      |         |                    |  |         |
| 11,300.00                  | 8,835.00       | 11,502.02      | 9,060.00       | 60.41           | 60.72  | -98.70            | 2,429.20               | 2,370.95        | 1,415.97         | 1,297.17           | 118.80            | 11.919 |                                                                                      |         |                    |  |         |
| 11,400.00                  | 8,835.00       | 11,602.02      | 9,060.00       | 62.15           | 62.45  | -98.70            | 2,429.80               | 2,470.95        | 1,415.97         | 1,293.74           | 122.24            | 11.584 |                                                                                      |         |                    |  |         |
| 11,500.00                  | 8,835.00       | 11,702.02      | 9,060.00       | 63.91           | 64.20  | -98.70            | 2,430.39               | 2,570.95        | 1,415.97         | 1,290.26           | 125.71            | 11.264 |                                                                                      |         |                    |  |         |
| 11,600.00                  | 8,835.00       | 11,802.02      | 9,060.00       | 65.69           | 65.97  | -98.70            | 2,430.99               | 2,670.95        | 1,415.97         | 1,286.76           | 129.22            | 10.958 |                                                                                      |         |                    |  |         |
| 11,700.00                  | 8,835.00       | 11,902.02      | 9,060.00       | 67.47           | 67.75  | -98.70            | 2,431.59               | 2,770.95        | 1,415.97         | 1,283.22           | 132.75            | 10.666 |                                                                                      |         |                    |  |         |
| 11,800.00                  | 8,835.00       | 11,997.98      | 9,060.00       | 69.28           | 69.47  | -98.70            | 2,432.18               | 2,870.94        | 1,415.97         | 1,279.73           | 136.25            | 10.393 |                                                                                      |         |                    |  |         |
| 11,900.00                  | 8,835.00       | 12,102.02      | 9,060.00       | 71.09           | 71.35  | -98.70            | 2,432.78               | 2,970.94        | 1,415.97         | 1,276.06           | 139.91            | 10.120 |                                                                                      |         |                    |  |         |
| 12,000.00                  | 8,835.00       | 12,202.02      | 9,060.00       | 72.92           | 73.17  | -98.70            | 2,433.37               | 3,070.94        | 1,415.97         | 1,272.44           | 143.53            | 9.865  |                                                                                      |         |                    |  |         |
| 12,100.00                  | 8,835.00       | 12,297.98      | 9,060.00       | 74.76           | 74.93  | -98.70            | 2,433.97               | 3,170.94        | 1,415.97         | 1,268.88           | 147.09            | 9.626  |                                                                                      |         |                    |  |         |
| 12,200.00                  | 8,835.00       | 12,402.02      | 9,060.00       | 76.61           | 76.85  | -98.70            | 2,434.57               | 3,270.94        | 1,415.97         | 1,265.14           | 150.83            | 9.388  |                                                                                      |         |                    |  |         |
| 12,300.00                  | 8,835.00       | 12,502.02      | 9,060.00       | 78.47           | 78.70  | -98.70            | 2,435.16               | 3,370.94        | 1,415.97         | 1,261.46           | 154.51            | 9.164  |                                                                                      |         |                    |  |         |
| 12,400.00                  | 8,835.00       | 12,602.02      | 9,060.00       | 80.34           | 80.57  | -98.70            | 2,435.76               | 3,470.93        | 1,415.97         | 1,257.77           | 158.21            | 8.950  |                                                                                      |         |                    |  |         |
| 12,500.00                  | 8,835.00       | 12,702.02      | 9,060.00       | 82.22           | 82.44  | -98.70            | 2,436.35               | 3,570.93        | 1,415.97         | 1,254.05           | 161.92            | 8.745  |                                                                                      |         |                    |  |         |
| 12,600.00                  | 8,835.00       | 12,802.02      | 9,060.00       | 84.11           | 84.32  | -98.70            | 2,436.95               | 3,670.93        | 1,415.97         | 1,250.32           | 165.65            | 8.548  |                                                                                      |         |                    |  |         |
| 12,700.00                  | 8,835.00       | 12,902.02      | 9,060.00       | 86.00           | 86.21  | -98.70            | 2,437.54               | 3,770.93        | 1,415.97         | 1,246.57           | 169.40            | 8.359  |                                                                                      |         |                    |  |         |
| 12,800.00                  | 8,835.00       | 13,002.02      | 9,060.00       | 87.90           | 88.10  | -98.70            | 2,438.14               | 3,870.93        | 1,415.97         | 1,242.82           | 173.16            | 8.177  |                                                                                      |         |                    |  |         |
| 12,900.00                  | 8,835.00       | 13,102.02      | 9,060.00       | 89.81           | 90.00  | -98.70            | 2,438.74               | 3,970.92        | 1,415.97         | 1,239.04           | 176.93            | 8.003  |                                                                                      |         |                    |  |         |
| 13,000.00                  | 8,835.00       | 13,202.02      | 9,060.00       | 91.72           | 91.91  | -98.70            | 2,439.33               | 4,070.92        | 1,415.97         | 1,235.26           | 180.71            | 7.835  |                                                                                      |         |                    |  |         |
| 13,100.00                  | 8,835.00       | 13,302.03      | 9,060.00       | 93.64           | 93.83  | -98.70            | 2,439.93               | 4,170.92        | 1,415.97         | 1,231.46           | 184.51            | 7.674  |                                                                                      |         |                    |  |         |
| 13,200.00                  | 8,835.00       | 13,402.03      | 9,060.00       | 95.56           | 95.74  | -98.70            | 2,440.52               | 4,270.92        | 1,415.97         | 1,227.66           | 188.31            | 7.519  |                                                                                      |         |                    |  |         |
| 13,300.00                  | 8,835.00       | 13,502.03      | 9,060.00       | 97.49           | 97.67  | -98.70            | 2,441.12               | 4,370.92        | 1,415.97         | 1,223.84           | 192.13            | 7.370  |                                                                                      |         |                    |  |         |
| 13,400.00                  | 8,835.00       | 13,602.03      | 9,060.00       | 99.42           | 99.60  | -98.70            | 2,441.72               | 4,470.92        | 1,415.97         | 1,220.02           | 195.96            | 7.226  |                                                                                      |         |                    |  |         |
| 13,500.00                  | 8,835.00       | 13,702.03      | 9,060.00       | 101.36          | 101.53 | -98.70            | 2,442.31               | 4,570.91        | 1,415.97         | 1,216.18           | 199.79            | 7.087  |                                                                                      |         |                    |  |         |
| 13,600.00                  | 8,835.00       | 13,802.03      | 9,060.00       | 103.30          | 103.47 | -98.70            | 2,442.91               | 4,670.91        | 1,415.97         | 1,212.34           | 203.63            | 6.954  |                                                                                      |         |                    |  |         |
| 13,700.00                  | 8,835.00       | 13,902.03      | 9,060.00       | 105.25          | 105.41 | -98.70            | 2,443.50               | 4,770.91        | 1,415.97         | 1,208.49           | 207.48            | 6.825  |                                                                                      |         |                    |  |         |
| 13,800.00                  | 8,835.00       | 14,002.03      | 9,060.00       | 107.20          | 107.36 | -98.70            | 2,444.10               | 4,870.91        | 1,415.97         | 1,204.63           | 211.34            | 6.700  |                                                                                      |         |                    |  |         |
| 13,900.00                  | 8,835.00       | 14,097.98      | 9,060.00       | 109.15          | 109.23 | -98.70            | 2,444.70               | 4,970.91        | 1,415.97         | 1,200.84           | 215.13            | 6.582  |                                                                                      |         |                    |  |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |             | Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 621H - Wellbore #1 - Permit Plan 1 |         | Offset Site Error: 0.00 ft |  |
|----------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|-------------|--------------------------------------------------------------------------------------|---------|----------------------------|--|
| Survey Program: 0-MWD+IFR1 |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |             | Offset Well Error: 0.50 ft                                                           |         |                            |  |
| Reference                  |                | Offset         |                | Semi Major Axis |        |                   | Distance               |                 |                  |                    |                   |             |                                                                                      | Warning |                            |  |
| Measured Depth             | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor |             |                                                                                      |         |                            |  |
| (ft)                       | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft)      | (ft)             | (ft)               | (ft)              |             |                                                                                      |         |                            |  |
| 14,000.00                  | 8,835.00       | 14,202.03      | 9,060.00       | 111.10          | 111.26 | -98.70            | 2,445.29               | 5,070.90        | 1,415.97         | 1,196.89           | 219.08            | 6.463       |                                                                                      |         |                            |  |
| 14,100.00                  | 8,835.00       | 14,302.03      | 9,060.00       | 113.06          | 113.22 | -98.70            | 2,445.89               | 5,170.90        | 1,415.97         | 1,193.02           | 222.96            | 6.351       |                                                                                      |         |                            |  |
| 14,200.00                  | 8,835.00       | 14,402.03      | 9,060.00       | 115.03          | 115.18 | -98.70            | 2,446.48               | 5,270.90        | 1,415.97         | 1,189.13           | 226.84            | 6.242       |                                                                                      |         |                            |  |
| 14,300.00                  | 8,835.00       | 14,502.03      | 9,060.00       | 116.99          | 117.14 | -98.70            | 2,447.08               | 5,370.90        | 1,415.97         | 1,185.24           | 230.73            | 6.137       |                                                                                      |         |                            |  |
| 14,400.00                  | 8,835.00       | 14,602.03      | 9,060.00       | 118.96          | 119.10 | -98.70            | 2,447.67               | 5,470.90        | 1,415.97         | 1,181.35           | 234.63            | 6.035       |                                                                                      |         |                            |  |
| 14,500.00                  | 8,835.00       | 14,702.03      | 9,060.00       | 120.93          | 121.07 | -98.70            | 2,448.27               | 5,570.90        | 1,415.97         | 1,177.44           | 238.53            | 5.936       |                                                                                      |         |                            |  |
| 14,600.00                  | 8,835.00       | 14,802.03      | 9,060.00       | 122.90          | 123.04 | -98.70            | 2,448.87               | 5,670.89        | 1,415.97         | 1,173.54           | 242.43            | 5.841       |                                                                                      |         |                            |  |
| 14,700.00                  | 8,835.00       | 14,902.03      | 9,060.00       | 124.88          | 125.01 | -98.70            | 2,449.46               | 5,770.89        | 1,415.97         | 1,169.63           | 246.34            | 5.748       |                                                                                      |         |                            |  |
| 14,800.00                  | 8,835.00       | 15,002.03      | 9,060.00       | 126.86          | 126.99 | -98.70            | 2,450.06               | 5,870.89        | 1,415.97         | 1,165.71           | 250.26            | 5.658       |                                                                                      |         |                            |  |
| 14,900.00                  | 8,835.00       | 15,102.03      | 9,060.00       | 128.84          | 128.97 | -98.70            | 2,450.65               | 5,970.89        | 1,415.97         | 1,161.80           | 254.18            | 5.571       |                                                                                      |         |                            |  |
| 15,000.00                  | 8,835.00       | 15,202.03      | 9,060.00       | 130.82          | 130.95 | -98.70            | 2,451.25               | 6,070.89        | 1,415.97         | 1,157.87           | 258.10            | 5.486       |                                                                                      |         |                            |  |
| 15,100.00                  | 8,835.00       | 15,302.03      | 9,060.00       | 132.80          | 132.93 | -98.70            | 2,451.85               | 6,170.89        | 1,415.97         | 1,153.95           | 262.03            | 5.404       |                                                                                      |         |                            |  |
| 15,200.00                  | 8,835.00       | 15,402.03      | 9,060.00       | 134.79          | 134.91 | -98.70            | 2,452.44               | 6,270.88        | 1,415.97         | 1,150.01           | 265.96            | 5.324       |                                                                                      |         |                            |  |
| 15,300.00                  | 8,835.00       | 15,502.03      | 9,060.00       | 136.78          | 136.90 | -98.70            | 2,453.04               | 6,370.88        | 1,415.97         | 1,146.08           | 269.89            | 5.246       |                                                                                      |         |                            |  |
| 15,400.00                  | 8,835.00       | 15,602.03      | 9,060.00       | 138.76          | 138.88 | -98.70            | 2,453.63               | 6,470.88        | 1,415.97         | 1,142.14           | 273.83            | 5.171       |                                                                                      |         |                            |  |
| 15,500.00                  | 8,835.00       | 15,702.03      | 9,060.00       | 140.76          | 140.87 | -98.70            | 2,454.23               | 6,570.88        | 1,415.97         | 1,138.20           | 277.77            | 5.098       |                                                                                      |         |                            |  |
| 15,600.00                  | 8,835.00       | 15,802.03      | 9,060.00       | 142.75          | 142.86 | -98.70            | 2,454.83               | 6,670.88        | 1,415.97         | 1,134.26           | 281.71            | 5.026       |                                                                                      |         |                            |  |
| 15,700.00                  | 8,835.00       | 15,902.03      | 9,060.00       | 144.74          | 144.86 | -98.70            | 2,455.42               | 6,770.87        | 1,415.97         | 1,130.31           | 285.66            | 4.957 Alert |                                                                                      |         |                            |  |
| 15,800.00                  | 8,835.00       | 16,002.03      | 9,060.00       | 146.74          | 146.85 | -98.70            | 2,456.02               | 6,870.87        | 1,415.97         | 1,126.36           | 289.61            | 4.889 Alert |                                                                                      |         |                            |  |
| 15,900.00                  | 8,835.00       | 16,102.03      | 9,060.00       | 148.73          | 148.84 | -98.70            | 2,456.61               | 6,970.87        | 1,415.97         | 1,122.41           | 293.56            | 4.823 Alert |                                                                                      |         |                            |  |
| 16,000.00                  | 8,835.00       | 16,202.03      | 9,060.00       | 150.73          | 150.84 | -98.70            | 2,457.21               | 7,070.87        | 1,415.97         | 1,118.45           | 297.52            | 4.759 Alert |                                                                                      |         |                            |  |
| 16,100.00                  | 8,835.00       | 16,302.03      | 9,060.00       | 152.73          | 152.84 | -98.70            | 2,457.80               | 7,170.87        | 1,415.97         | 1,114.50           | 301.48            | 4.697 Alert |                                                                                      |         |                            |  |
| 16,200.00                  | 8,835.00       | 16,402.03      | 9,060.00       | 154.73          | 154.84 | -98.70            | 2,458.40               | 7,270.87        | 1,415.97         | 1,110.54           | 305.44            | 4.636 Alert |                                                                                      |         |                            |  |
| 16,300.00                  | 8,835.00       | 16,502.03      | 9,060.00       | 156.73          | 156.84 | -98.70            | 2,459.00               | 7,370.86        | 1,415.97         | 1,106.57           | 309.40            | 4.577 Alert |                                                                                      |         |                            |  |
| 16,400.00                  | 8,835.00       | 16,602.03      | 9,060.00       | 158.74          | 158.84 | -98.70            | 2,459.59               | 7,470.86        | 1,415.97         | 1,102.61           | 313.36            | 4.519 Alert |                                                                                      |         |                            |  |
| 16,500.00                  | 8,835.00       | 16,702.03      | 9,060.00       | 160.74          | 160.84 | -98.70            | 2,460.19               | 7,570.86        | 1,415.97         | 1,098.64           | 317.33            | 4.462 Alert |                                                                                      |         |                            |  |
| 16,600.00                  | 8,835.00       | 16,802.03      | 9,060.00       | 162.74          | 162.85 | -98.70            | 2,460.78               | 7,670.86        | 1,415.97         | 1,094.67           | 321.30            | 4.407 Alert |                                                                                      |         |                            |  |
| 16,700.00                  | 8,835.00       | 16,902.03      | 9,060.00       | 164.75          | 164.85 | -98.70            | 2,461.38               | 7,770.86        | 1,415.97         | 1,090.70           | 325.27            | 4.353 Alert |                                                                                      |         |                            |  |
| 16,800.00                  | 8,835.00       | 17,002.03      | 9,060.00       | 166.76          | 166.86 | -98.70            | 2,461.98               | 7,870.86        | 1,415.97         | 1,086.73           | 329.24            | 4.301 Alert |                                                                                      |         |                            |  |
| 16,900.00                  | 8,835.00       | 17,102.03      | 9,060.00       | 168.77          | 168.86 | -98.70            | 2,462.57               | 7,970.85        | 1,415.97         | 1,082.75           | 333.22            | 4.249 Alert |                                                                                      |         |                            |  |
| 17,000.00                  | 8,835.00       | 17,202.03      | 9,060.00       | 170.77          | 170.87 | -98.70            | 2,463.17               | 8,070.85        | 1,415.97         | 1,078.78           | 337.19            | 4.199 Alert |                                                                                      |         |                            |  |
| 17,100.00                  | 8,835.00       | 17,302.03      | 9,060.00       | 172.78          | 172.88 | -98.70            | 2,463.76               | 8,170.85        | 1,415.97         | 1,074.80           | 341.17            | 4.150 Alert |                                                                                      |         |                            |  |
| 17,200.00                  | 8,835.00       | 17,402.03      | 9,060.00       | 174.79          | 174.89 | -98.70            | 2,464.36               | 8,270.85        | 1,415.97         | 1,070.82           | 345.15            | 4.102 Alert |                                                                                      |         |                            |  |
| 17,300.00                  | 8,835.00       | 17,502.03      | 9,060.00       | 176.81          | 176.90 | -98.70            | 2,464.96               | 8,370.85        | 1,415.97         | 1,066.84           | 349.13            | 4.056 Alert |                                                                                      |         |                            |  |
| 17,400.00                  | 8,835.00       | 17,602.03      | 9,060.00       | 178.82          | 178.91 | -98.70            | 2,465.55               | 8,470.84        | 1,415.97         | 1,062.85           | 353.12            | 4.010 Alert |                                                                                      |         |                            |  |
| 17,500.00                  | 8,835.00       | 17,702.03      | 9,060.00       | 180.83          | 180.92 | -98.70            | 2,466.15               | 8,570.84        | 1,415.97         | 1,058.87           | 357.10            | 3.965 Alert |                                                                                      |         |                            |  |
| 17,600.00                  | 8,835.00       | 17,802.03      | 9,060.00       | 182.84          | 182.93 | -98.70            | 2,466.74               | 8,670.84        | 1,415.97         | 1,054.88           | 361.09            | 3.921 Alert |                                                                                      |         |                            |  |
| 17,700.00                  | 8,835.00       | 17,902.03      | 9,060.00       | 184.86          | 184.95 | -98.70            | 2,467.34               | 8,770.84        | 1,415.97         | 1,050.89           | 365.08            | 3.879 Alert |                                                                                      |         |                            |  |
| 17,800.00                  | 8,835.00       | 18,002.03      | 9,060.00       | 186.87          | 186.96 | -98.70            | 2,467.94               | 8,870.84        | 1,415.97         | 1,046.91           | 369.07            | 3.837 Alert |                                                                                      |         |                            |  |
| 17,900.00                  | 8,835.00       | 18,102.03      | 9,060.00       | 188.89          | 188.97 | -98.70            | 2,468.53               | 8,970.84        | 1,415.97         | 1,042.92           | 373.06            | 3.796 Alert |                                                                                      |         |                            |  |
| 18,000.00                  | 8,835.00       | 18,202.03      | 9,060.00       | 190.91          | 190.99 | -98.70            | 2,469.13               | 9,070.83        | 1,415.97         | 1,038.92           | 377.05            | 3.755 Alert |                                                                                      |         |                            |  |
| 18,100.00                  | 8,835.00       | 18,302.03      | 9,060.00       | 192.92          | 193.01 | -98.70            | 2,469.72               | 9,170.83        | 1,415.97         | 1,034.93           | 381.04            | 3.716 Alert |                                                                                      |         |                            |  |
| 18,200.00                  | 8,835.00       | 18,402.03      | 9,060.00       | 194.94          | 195.02 | -98.70            | 2,470.32               | 9,270.83        | 1,415.97         | 1,030.94           | 385.03            | 3.678 Alert |                                                                                      |         |                            |  |
| 18,300.00                  | 8,835.00       | 18,502.03      | 9,060.00       | 196.96          | 197.04 | -98.70            | 2,470.91               | 9,370.83        | 1,415.97         | 1,026.94           | 389.03            | 3.640 Alert |                                                                                      |         |                            |  |
| 18,400.00                  | 8,835.00       | 18,602.03      | 9,060.00       | 198.98          | 199.06 | -98.70            | 2,471.51               | 9,470.83        | 1,415.97         | 1,022.94           | 393.03            | 3.603 Alert |                                                                                      |         |                            |  |
| 18,500.00                  | 8,835.00       | 18,702.03      | 9,060.00       | 201.00          | 201.08 | -98.70            | 2,472.11               | 9,570.83        | 1,415.97         | 1,018.95           | 397.02            | 3.566 Alert |                                                                                      |         |                            |  |
| 18,600.00                  | 8,835.00       | 18,802.03      | 9,060.00       | 203.02          | 203.10 | -98.70            | 2,472.70               | 9,670.82        | 1,415.97         | 1,014.95           | 401.02            | 3.531 Alert |                                                                                      |         |                            |  |
| 18,700.00                  | 8,835.00       | 18,902.03      | 9,060.00       | 205.04          | 205.11 | -98.70            | 2,473.30               | 9,770.82        | 1,415.97         | 1,010.95           | 405.02            | 3.496 Alert |                                                                                      |         |                            |  |
| 18,800.00                  | 8,835.00       | 19,002.03      | 9,060.00       | 207.06          | 207.13 | -98.70            | 2,473.89               | 9,870.82        | 1,415.97         | 1,006.95           | 409.02            | 3.462 Alert |                                                                                      |         |                            |  |
| 18,900.00                  | 8,835.00       | 19,102.03      | 9,060.00       | 209.08          | 209.16 | -98.70            | 2,474.49               | 9,970.82        | 1,415.97         | 1,002.95           | 413.02            | 3.428 Alert |                                                                                      |         |                            |  |
| 19,000.00                  | 8,835.00       | 19,202.03      | 9,060.00       | 211.10          | 211.18 | -98.70            | 2,475.09               | 10,070.82       | 1,415.97         | 998.94             | 417.03            | 3.395 Alert |                                                                                      |         |                            |  |
| 19,100.00                  | 8,835.00       | 19,302.03      | 9,060.00       | 213.12          | 213.20 | -98.70            | 2,475.68               | 10,170.81       | 1,415.97         | 994.94             | 421.03            | 3.363 Alert |                                                                                      |         |                            |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

|                               |                               |                               |                               |                          |                       |                                 |                                                |                      |                                |                                 |                                   |                           |                |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------|-----------------------|---------------------------------|------------------------------------------------|----------------------|--------------------------------|---------------------------------|-----------------------------------|---------------------------|----------------|
| <b>Offset Design</b>          |                               |                               |                               |                          |                       |                                 |                                                |                      |                                |                                 |                                   | <b>Offset Site Error:</b> | 0.00 ft        |
| Survey Program: 0-MWD+IFR1    |                               |                               |                               |                          |                       |                                 |                                                |                      |                                |                                 |                                   | <b>Offset Well Error:</b> | 0.50 ft        |
| <b>Reference</b>              |                               | <b>Offset</b>                 |                               | <b>Semi Major Axis</b>   |                       |                                 | <b>Distance</b>                                |                      |                                |                                 |                                   |                           | <b>Warning</b> |
| <b>Measured Depth</b><br>(ft) | <b>Vertical Depth</b><br>(ft) | <b>Measured Depth</b><br>(ft) | <b>Vertical Depth</b><br>(ft) | <b>Reference</b><br>(ft) | <b>Offset</b><br>(ft) | <b>Highside Toolface</b><br>(°) | <b>Offset Wellbore Centre</b><br>+N/-S<br>(ft) | <b>+E/-W</b><br>(ft) | <b>Between Centres</b><br>(ft) | <b>Between Ellipses</b><br>(ft) | <b>Minimum Separation</b><br>(ft) | <b>Separation Factor</b>  |                |
| 19,200.00                     | 8,835.00                      | 19,402.03                     | 9,060.00                      | 215.15                   | 215.22                | -98.70                          | 2,476.28                                       | 10,270.81            | 1,415.97                       | 990.94                          | 425.03                            | 3.331                     | Alert          |
| 19,308.27                     | 8,835.00                      | 19,506.25                     | 9,060.00                      | 217.34                   | 217.33                | -98.70                          | 2,476.92                                       | 10,379.08            | 1,415.97                       | 986.68                          | 429.29                            | 3.298                     | Alert, ES, SF  |



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                     | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                     | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                     |                    | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor   |                    |         |
| 0.00                       | 0.00                | 0.90                | -0.90               | 0.50            | 0.50        | 179.89                | -59.98                            | 0.11       | 59.98                |                       |                         |                     |                    |         |
| 100.00                     | 100.00              | 100.90              | 99.10               | 0.52            | 0.52        | 179.89                | -59.98                            | 0.11       | 59.98                | 58.94                 | 1.04                    | 57.876              |                    |         |
| 200.00                     | 200.00              | 200.90              | 199.10              | 0.70            | 0.70        | 179.89                | -59.98                            | 0.11       | 59.98                | 58.57                 | 1.41                    | 42.646              |                    |         |
| 300.00                     | 300.00              | 300.90              | 299.10              | 0.99            | 0.99        | 179.89                | -59.98                            | 0.11       | 59.98                | 58.00                 | 1.98                    | 30.332              |                    |         |
| 400.00                     | 400.00              | 400.90              | 399.10              | 1.31            | 1.31        | 179.89                | -59.98                            | 0.11       | 59.98                | 57.36                 | 2.62                    | 22.883              |                    |         |
| 500.00                     | 500.00              | 500.90              | 499.10              | 1.65            | 1.65        | 179.89                | -59.98                            | 0.11       | 59.98                | 56.68                 | 3.30                    | 18.202              |                    |         |
| 600.00                     | 600.00              | 600.90              | 599.10              | 1.99            | 1.99        | 179.89                | -59.98                            | 0.11       | 59.98                | 56.00                 | 3.98                    | 15.054              |                    |         |
| 700.00                     | 700.00              | 700.90              | 699.10              | 2.34            | 2.34        | 179.89                | -59.98                            | 0.11       | 59.98                | 55.30                 | 4.68                    | 12.811              |                    |         |
| 800.00                     | 800.00              | 800.90              | 799.10              | 2.69            | 2.69        | 179.89                | -59.98                            | 0.11       | 59.98                | 54.60                 | 5.38                    | 11.140              |                    |         |
| 900.00                     | 900.00              | 900.90              | 899.10              | 3.04            | 3.05        | 179.89                | -59.98                            | 0.11       | 59.98                | 53.89                 | 6.09                    | 9.849               |                    |         |
| 1,000.00                   | 1,000.00            | 1,000.90            | 999.10              | 3.40            | 3.40        | 179.89                | -59.98                            | 0.11       | 59.98                | 53.18                 | 6.80                    | 8.823               |                    |         |
| 1,100.00                   | 1,100.00            | 1,100.90            | 1,099.10            | 3.75            | 3.76        | 179.89                | -59.98                            | 0.11       | 59.98                | 52.47                 | 7.51                    | 7.988               |                    |         |
| 1,200.00                   | 1,200.00            | 1,200.90            | 1,199.10            | 4.11            | 4.11        | 179.89                | -59.98                            | 0.11       | 59.98                | 51.76                 | 8.22                    | 7.297               |                    |         |
| 1,300.00                   | 1,300.00            | 1,300.90            | 1,299.10            | 4.46            | 4.47        | 179.89                | -59.98                            | 0.11       | 59.98                | 51.05                 | 8.93                    | 6.716               |                    |         |
| 1,400.00                   | 1,400.00            | 1,400.90            | 1,399.10            | 4.82            | 4.82        | 179.89                | -59.98                            | 0.11       | 59.98                | 50.34                 | 9.64                    | 6.219               |                    |         |
| 1,500.00                   | 1,500.00            | 1,500.90            | 1,499.10            | 5.18            | 5.18        | 179.89                | -59.98                            | 0.11       | 59.98                | 49.62                 | 10.36                   | 5.791               |                    |         |
| 1,600.00                   | 1,600.00            | 1,600.90            | 1,599.10            | 5.53            | 5.54        | 179.89                | -59.98                            | 0.11       | 59.98                | 48.91                 | 11.07                   | 5.418               |                    |         |
| 1,700.00                   | 1,700.00            | 1,700.90            | 1,699.10            | 5.89            | 5.89        | 179.89                | -59.98                            | 0.11       | 59.98                | 48.19                 | 11.79                   | 5.089               |                    |         |
| 1,800.00                   | 1,800.00            | 1,800.90            | 1,799.10            | 6.25            | 6.25        | 179.89                | -59.98                            | 0.11       | 59.98                | 47.48                 | 12.50                   | 4.798 Alert         |                    |         |
| 1,900.00                   | 1,900.00            | 1,900.90            | 1,899.10            | 6.61            | 6.61        | 179.89                | -59.98                            | 0.11       | 59.98                | 46.77                 | 13.21                   | 4.539 Alert         |                    |         |
| 2,000.00                   | 2,000.00            | 2,000.90            | 1,999.10            | 6.96            | 6.97        | 179.89                | -59.98                            | 0.11       | 59.98                | 46.05                 | 13.93                   | 4.306 Alert, CC, ES |                    |         |
| 2,100.00                   | 2,099.99            | 2,100.91            | 2,099.09            | 7.32            | 7.32        | -167.50               | -59.98                            | 0.11       | 60.83                | 46.19                 | 14.64                   | 4.154 Alert         |                    |         |
| 2,200.00                   | 2,199.96            | 2,200.94            | 2,199.06            | 7.68            | 7.68        | -168.01               | -59.98                            | 0.11       | 63.39                | 48.03                 | 15.36                   | 4.127 Alert         |                    |         |
| 2,300.00                   | 2,299.86            | 2,301.04            | 2,298.96            | 8.04            | 8.04        | -168.77               | -59.98                            | 0.11       | 67.66                | 51.59                 | 16.08                   | 4.209 Alert         |                    |         |
| 2,400.00                   | 2,399.68            | 2,401.22            | 2,398.78            | 8.39            | 8.40        | -169.68               | -59.98                            | 0.11       | 73.66                | 56.87                 | 16.79                   | 4.387 Alert         |                    |         |
| 2,500.00                   | 2,499.37            | 2,498.47            | 2,498.47            | 8.75            | 8.75        | -170.66               | -59.98                            | 0.11       | 81.39                | 63.90                 | 17.50                   | 4.652 Alert         |                    |         |
| 2,600.00                   | 2,598.90            | 2,596.79            | 2,596.79            | 9.11            | 9.08        | -171.29               | -60.66                            | -0.35      | 91.51                | 73.33                 | 18.19                   | 5.032               |                    |         |
| 2,700.00                   | 2,698.26            | 2,694.61            | 2,694.57            | 9.46            | 9.40        | -171.35               | -62.72                            | -1.74      | 104.69               | 85.83                 | 18.86                   | 5.551               |                    |         |
| 2,800.00                   | 2,797.40            | 2,791.78            | 2,791.65            | 9.82            | 9.72        | -171.02               | -66.13                            | -4.05      | 120.89               | 101.37                | 19.53                   | 6.191               |                    |         |
| 2,900.00                   | 2,896.30            | 2,888.17            | 2,887.87            | 10.18           | 10.04       | -170.45               | -70.87                            | -7.25      | 140.11               | 119.92                | 20.19                   | 6.941               |                    |         |
| 3,000.00                   | 2,994.93            | 2,984.51            | 2,983.95            | 10.54           | 10.36       | -169.78               | -76.83                            | -11.29     | 162.23               | 141.37                | 20.85                   | 7.780               |                    |         |
| 3,100.00                   | 3,093.26            | 3,081.57            | 3,080.71            | 10.90           | 10.69       | -169.30               | -83.07                            | -15.51     | 186.26               | 164.73                | 21.53                   | 8.651               |                    |         |
| 3,195.07                   | 3,186.42            | 3,173.45            | 3,172.31            | 11.24           | 10.99       | -169.02               | -88.98                            | -19.51     | 210.65               | 188.47                | 22.18                   | 9.499               |                    |         |
| 3,200.00                   | 3,191.25            | 3,178.21            | 3,177.06            | 11.26           | 11.01       | -169.01               | -89.28                            | -19.71     | 211.95               | 189.74                | 22.21                   | 9.543               |                    |         |
| 3,300.00                   | 3,289.08            | 3,274.65            | 3,273.21            | 11.62           | 11.34       | -168.86               | -95.49                            | -23.91     | 238.40               | 215.51                | 22.89                   | 10.416              |                    |         |
| 3,400.00                   | 3,386.91            | 3,371.09            | 3,369.35            | 11.98           | 11.66       | -168.73               | -101.69                           | -28.10     | 264.85               | 241.28                | 23.57                   | 11.237              |                    |         |
| 3,500.00                   | 3,484.74            | 3,467.52            | 3,465.50            | 12.35           | 11.99       | -168.63               | -107.89                           | -32.30     | 291.30               | 267.04                | 24.25                   | 12.011              |                    |         |
| 3,600.00                   | 3,582.58            | 3,563.96            | 3,561.65            | 12.72           | 12.32       | -168.55               | -114.09                           | -36.50     | 317.75               | 292.81                | 24.94                   | 12.741              |                    |         |
| 3,700.00                   | 3,680.41            | 3,660.40            | 3,657.79            | 13.09           | 12.65       | -168.48               | -120.30                           | -40.69     | 344.20               | 318.57                | 25.63                   | 13.431              |                    |         |
| 3,800.00                   | 3,778.24            | 3,756.84            | 3,753.94            | 13.46           | 12.99       | -168.42               | -126.50                           | -44.89     | 370.65               | 344.33                | 26.32                   | 14.083              |                    |         |
| 3,900.00                   | 3,876.08            | 3,853.28            | 3,850.09            | 13.83           | 13.32       | -168.37               | -132.70                           | -49.08     | 397.10               | 370.09                | 27.01                   | 14.702              |                    |         |
| 4,000.00                   | 3,973.91            | 3,949.71            | 3,946.23            | 14.21           | 13.66       | -168.32               | -138.90                           | -53.28     | 423.55               | 395.84                | 27.70                   | 15.288              |                    |         |
| 4,100.00                   | 4,071.74            | 4,046.15            | 4,042.38            | 14.58           | 13.99       | -168.28               | -145.10                           | -57.47     | 450.00               | 421.60                | 28.40                   | 15.845              |                    |         |
| 4,200.00                   | 4,169.57            | 4,142.59            | 4,138.53            | 14.96           | 14.33       | -168.24               | -151.31                           | -61.67     | 476.45               | 447.35                | 29.10                   | 16.374              |                    |         |
| 4,300.00                   | 4,267.41            | 4,239.03            | 4,234.67            | 15.33           | 14.67       | -168.21               | -157.51                           | -65.87     | 502.90               | 473.10                | 29.80                   | 16.877              |                    |         |
| 4,400.00                   | 4,365.24            | 4,335.46            | 4,330.82            | 15.71           | 15.00       | -168.18               | -163.71                           | -70.06     | 529.35               | 498.85                | 30.50                   | 17.357              |                    |         |
| 4,500.00                   | 4,463.07            | 4,431.90            | 4,426.97            | 16.09           | 15.34       | -168.16               | -169.91                           | -74.26     | 555.80               | 524.60                | 31.20                   | 17.814              |                    |         |
| 4,600.00                   | 4,560.90            | 4,528.34            | 4,523.11            | 16.47           | 15.68       | -168.13               | -176.12                           | -78.45     | 582.25               | 550.35                | 31.90                   | 18.251              |                    |         |
| 4,700.00                   | 4,658.74            | 4,624.78            | 4,619.26            | 16.85           | 16.02       | -168.11               | -182.32                           | -82.65     | 608.71               | 576.10                | 32.61                   | 18.668              |                    |         |
| 4,800.00                   | 4,756.57            | 4,721.22            | 4,715.41            | 17.23           | 16.36       | -168.09               | -188.52                           | -86.84     | 635.16               | 601.85                | 33.31                   | 19.067              |                    |         |
| 4,900.00                   | 4,854.40            | 4,817.65            | 4,811.55            | 17.61           | 16.70       | -168.07               | -194.72                           | -91.04     | 661.61               | 627.59                | 34.02                   | 19.449              |                    |         |
| 5,000.00                   | 4,952.23            | 4,914.09            | 4,907.70            | 17.99           | 17.05       | -168.06               | -200.92                           | -95.23     | 688.06               | 653.34                | 34.72                   | 19.815              |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 623H - Wellbore #1 - Permit Plan 1 |  | Offset Site Error: |  | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------------------------------------------------------------------------|--|--------------------|--|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   |                                                                                      |  | Offset Well Error: |  | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                                                                                      |  |                    |  |         |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                                                                                      |  | Warning            |  |         |
| 5,100.00                   | 5,050.07            | 5,010.53            | 5,003.85            | 18.37           | 17.39       | -168.04               | -207.13                           | -99.43     | 714.51               | 679.08                | 35.43                   | 20.165            |                                                                                      |  |                    |  |         |
| 5,200.00                   | 5,147.90            | 5,106.97            | 5,099.99            | 18.75           | 17.73       | -168.03               | -213.33                           | -103.63    | 740.97               | 704.83                | 36.14                   | 20.502            |                                                                                      |  |                    |  |         |
| 5,300.00                   | 5,245.73            | 5,203.41            | 5,196.14            | 19.14           | 18.07       | -168.01               | -219.53                           | -107.82    | 767.42               | 730.57                | 36.85                   | 20.825            |                                                                                      |  |                    |  |         |
| 5,400.00                   | 5,343.56            | 5,300.16            | 5,292.29            | 19.52           | 18.42       | -168.00               | -225.73                           | -112.02    | 793.87               | 756.31                | 37.56                   | 21.135            |                                                                                      |  |                    |  |         |
| 5,500.00                   | 5,441.40            | 5,403.72            | 5,388.43            | 19.90           | 18.79       | -167.99               | -231.93                           | -116.21    | 820.32               | 782.02                | 38.30                   | 21.419            |                                                                                      |  |                    |  |         |
| 5,600.00                   | 5,539.23            | 5,507.28            | 5,484.58            | 20.29           | 19.16       | -167.98               | -238.14                           | -120.41    | 846.78               | 807.74                | 39.04                   | 21.692            |                                                                                      |  |                    |  |         |
| 5,700.00                   | 5,637.06            | 5,589.16            | 5,580.73            | 20.67           | 19.45       | -167.97               | -244.34                           | -124.60    | 873.23               | 833.53                | 39.70                   | 21.998            |                                                                                      |  |                    |  |         |
| 5,800.00                   | 5,734.90            | 5,685.59            | 5,676.87            | 21.05           | 19.79       | -167.96               | -250.54                           | -128.80    | 899.68               | 859.27                | 40.41                   | 22.264            |                                                                                      |  |                    |  |         |
| 5,900.00                   | 5,832.73            | 5,782.03            | 5,773.02            | 21.44           | 20.14       | -167.95               | -256.74                           | -132.99    | 926.13               | 885.01                | 41.12                   | 22.521            |                                                                                      |  |                    |  |         |
| 6,000.00                   | 5,930.56            | 5,878.47            | 5,869.17            | 21.83           | 20.48       | -167.94               | -262.95                           | -137.19    | 952.58               | 910.75                | 41.84                   | 22.769            |                                                                                      |  |                    |  |         |
| 6,100.00                   | 6,028.39            | 5,974.91            | 5,965.31            | 22.21           | 20.83       | -167.93               | -269.15                           | -141.39    | 979.04               | 936.48                | 42.55                   | 23.008            |                                                                                      |  |                    |  |         |
| 6,200.00                   | 6,126.23            | 6,071.35            | 6,061.46            | 22.60           | 21.18       | -167.92               | -275.35                           | -145.58    | 1,005.49             | 962.22                | 43.27                   | 23.239            |                                                                                      |  |                    |  |         |
| 6,300.00                   | 6,224.06            | 6,167.78            | 6,157.61            | 22.98           | 21.52       | -167.92               | -281.55                           | -149.78    | 1,031.94             | 987.96                | 43.98                   | 23.462            |                                                                                      |  |                    |  |         |
| 6,400.00                   | 6,321.89            | 6,264.22            | 6,253.75            | 23.37           | 21.87       | -167.91               | -287.75                           | -153.97    | 1,058.39             | 1,013.69              | 44.70                   | 23.678            |                                                                                      |  |                    |  |         |
| 6,500.00                   | 6,419.72            | 6,360.66            | 6,349.90            | 23.76           | 22.22       | -167.90               | -293.96                           | -158.17    | 1,084.85             | 1,039.43              | 45.42                   | 23.887            |                                                                                      |  |                    |  |         |
| 6,600.00                   | 6,517.56            | 6,457.10            | 6,446.05            | 24.14           | 22.56       | -167.90               | -300.16                           | -162.36    | 1,111.30             | 1,065.17              | 46.13                   | 24.089            |                                                                                      |  |                    |  |         |
| 6,700.00                   | 6,615.39            | 6,553.53            | 6,542.19            | 24.53           | 22.91       | -167.89               | -306.36                           | -166.56    | 1,137.75             | 1,090.90              | 46.85                   | 24.285            |                                                                                      |  |                    |  |         |
| 6,800.00                   | 6,713.22            | 6,649.97            | 6,638.34            | 24.92           | 23.26       | -167.88               | -312.56                           | -170.76    | 1,164.20             | 1,116.63              | 47.57                   | 24.474            |                                                                                      |  |                    |  |         |
| 6,900.00                   | 6,811.05            | 6,746.41            | 6,734.49            | 25.30           | 23.60       | -167.88               | -318.77                           | -174.95    | 1,190.66             | 1,142.37              | 48.29                   | 24.658            |                                                                                      |  |                    |  |         |
| 7,000.00                   | 6,908.89            | 6,842.85            | 6,830.63            | 25.69           | 23.95       | -167.87               | -324.97                           | -179.15    | 1,217.11             | 1,168.10              | 49.01                   | 24.836            |                                                                                      |  |                    |  |         |
| 7,100.00                   | 7,006.72            | 6,939.29            | 6,926.78            | 26.08           | 24.30       | -167.87               | -331.17                           | -183.34    | 1,243.56             | 1,193.84              | 49.73                   | 25.009            |                                                                                      |  |                    |  |         |
| 7,200.00                   | 7,104.55            | 7,035.72            | 7,022.93            | 26.47           | 24.65       | -167.86               | -337.37                           | -187.54    | 1,270.01             | 1,219.57              | 50.44                   | 25.176            |                                                                                      |  |                    |  |         |
| 7,216.87                   | 7,121.05            | 7,051.99            | 7,039.14            | 26.53           | 24.71       | -167.86               | -338.42                           | -188.25    | 1,274.48             | 1,223.91              | 50.57                   | 25.204            |                                                                                      |  |                    |  |         |
| 7,300.00                   | 7,202.57            | 7,132.39            | 7,119.30            | 26.85           | 25.00       | -167.92               | -343.59                           | -191.74    | 1,295.61             | 1,244.45              | 51.16                   | 25.323            |                                                                                      |  |                    |  |         |
| 7,400.00                   | 7,301.06            | 7,229.67            | 7,216.28            | 27.23           | 25.35       | -167.96               | -349.84                           | -195.98    | 1,318.76             | 1,266.88              | 51.88                   | 25.418            |                                                                                      |  |                    |  |         |
| 7,500.00                   | 7,399.97            | 7,327.50            | 7,313.82            | 27.61           | 25.70       | -167.96               | -356.14                           | -200.23    | 1,339.42             | 1,286.81              | 52.60                   | 25.463            |                                                                                      |  |                    |  |         |
| 7,600.00                   | 7,499.23            | 7,425.82            | 7,411.84            | 27.98           | 26.06       | -167.94               | -362.46                           | -204.51    | 1,357.56             | 1,304.24              | 53.32                   | 25.461            |                                                                                      |  |                    |  |         |
| 7,700.00                   | 7,598.77            | 7,524.56            | 7,510.28            | 28.34           | 26.41       | -167.88               | -368.81                           | -208.80    | 1,373.18             | 1,319.15              | 54.03                   | 25.413            |                                                                                      |  |                    |  |         |
| 7,800.00                   | 7,698.53            | 7,623.65            | 7,609.08            | 28.70           | 26.77       | -167.80               | -375.18                           | -213.12    | 1,386.28             | 1,331.53              | 54.75                   | 25.322            |                                                                                      |  |                    |  |         |
| 7,900.00                   | 7,798.44            | 7,723.02            | 7,708.15            | 29.05           | 27.13       | -167.69               | -381.57                           | -217.44    | 1,396.84             | 1,341.39              | 55.45                   | 25.189            |                                                                                      |  |                    |  |         |
| 8,000.00                   | 7,898.42            | 7,822.62            | 7,807.44            | 29.39           | 27.49       | -167.55               | -387.98                           | -221.77    | 1,404.87             | 1,348.71              | 56.16                   | 25.016            |                                                                                      |  |                    |  |         |
| 8,013.58                   | 7,912.00            | 7,836.15            | 7,820.94            | 29.43           | 27.54       | 179.69                | -388.85                           | -222.36    | 1,405.76             | 1,349.51              | 56.25                   | 24.990            |                                                                                      |  |                    |  |         |
| 8,100.00                   | 7,998.42            | 7,949.43            | 7,933.95            | 29.73           | 27.95       | 179.87                | -395.28                           | -226.71    | 1,410.72             | 1,353.68              | 57.04                   | 24.731            |                                                                                      |  |                    |  |         |
| 8,200.00                   | 8,098.42            | 8,093.45            | 8,077.87            | 30.07           | 28.47       | 179.98                | -399.53                           | -229.59    | 1,413.67             | 1,355.66              | 58.01                   | 24.371            |                                                                                      |  |                    |  |         |
| 8,300.00                   | 8,198.42            | 8,213.11            | 8,197.52            | 30.41           | 28.88       | 180.00                | -399.98                           | -229.89    | 1,413.98             | 1,355.19              | 58.80                   | 24.049            |                                                                                      |  |                    |  |         |
| 8,363.62                   | 8,262.04            | 8,276.73            | 8,261.14            | 30.62           | 29.09       | 180.00                | -399.98                           | -229.89    | 1,413.98             | 1,354.75              | 59.23                   | 23.873            |                                                                                      |  |                    |  |         |
| 8,400.00                   | 8,298.40            | 8,313.08            | 8,297.50            | 30.75           | 29.21       | 90.38                 | -399.98                           | -229.89    | 1,413.99             | 1,354.51              | 59.48                   | 23.774            |                                                                                      |  |                    |  |         |
| 8,450.00                   | 8,348.10            | 8,362.78            | 8,347.20            | 30.91           | 29.38       | 90.59                 | -399.98                           | -229.89    | 1,414.03             | 1,354.23              | 59.81                   | 23.643            |                                                                                      |  |                    |  |         |
| 8,500.00                   | 8,397.14            | 8,411.82            | 8,396.24            | 31.07           | 29.55       | 90.96                 | -399.98                           | -229.89    | 1,414.17             | 1,354.03              | 60.14                   | 23.516            |                                                                                      |  |                    |  |         |
| 8,550.00                   | 8,445.15            | 8,459.84            | 8,444.25            | 31.23           | 29.71       | 91.47                 | -399.98                           | -229.89    | 1,414.48             | 1,354.01              | 60.46                   | 23.395            |                                                                                      |  |                    |  |         |
| 8,600.00                   | 8,491.77            | 8,506.46            | 8,490.87            | 31.38           | 29.87       | 92.09                 | -399.98                           | -229.89    | 1,415.08             | 1,354.30              | 60.78                   | 23.282            |                                                                                      |  |                    |  |         |
| 8,650.00                   | 8,536.65            | 8,558.87            | 8,543.21            | 31.52           | 30.04       | 92.85                 | -399.95                           | -227.60    | 1,416.01             | 1,354.88              | 61.13                   | 23.165            |                                                                                      |  |                    |  |         |
| 8,700.00                   | 8,579.43            | 8,613.76            | 8,597.56            | 31.66           | 30.23       | 93.61                 | -399.87                           | -220.09    | 1,417.19             | 1,355.70              | 61.48                   | 23.051            |                                                                                      |  |                    |  |         |
| 8,750.00                   | 8,619.80            | 8,671.24            | 8,653.44            | 31.80           | 30.41       | 94.36                 | -399.72                           | -206.69    | 1,418.57             | 1,356.73              | 61.84                   | 22.939            |                                                                                      |  |                    |  |         |
| 8,800.00                   | 8,657.44            | 8,731.58            | 8,710.33            | 31.93           | 30.60       | 95.11                 | -399.50                           | -186.68    | 1,420.13             | 1,357.93              | 62.20                   | 22.831            |                                                                                      |  |                    |  |         |
| 8,850.00                   | 8,692.08            | 8,795.00            | 8,767.51            | 32.06           | 30.79       | 95.84                 | -399.20                           | -159.33    | 1,421.81             | 1,359.25              | 62.56                   | 22.726            |                                                                                      |  |                    |  |         |
| 8,900.00                   | 8,723.44            | 8,861.70            | 8,824.01            | 32.19           | 30.98       | 96.54                 | -398.81                           | -123.93    | 1,423.53             | 1,360.61              | 62.92                   | 22.624            |                                                                                      |  |                    |  |         |
| 8,950.00                   | 8,751.29            | 8,931.81            | 8,878.52            | 32.34           | 31.18       | 97.21                 | -398.33                           | -79.92     | 1,425.23             | 1,361.94              | 63.28                   | 22.521            |                                                                                      |  |                    |  |         |
| 9,000.00                   | 8,775.42            | 9,005.32            | 8,929.47            | 32.50           | 31.39       | 97.81                 | -397.75                           | -27.00     | 1,426.80             | 1,363.14              | 63.66                   | 22.413            |                                                                                      |  |                    |  |         |
| 9,050.00                   | 8,795.64            | 9,082.06            | 8,974.97            | 32.67           | 31.63       | 98.34                 | -397.07                           | 34.73      | 1,428.16             | 1,364.09              | 64.07                   | 22.291            |                                                                                      |  |                    |  |         |
| 9,100.00                   | 8,811.80            | 9,161.66            | 9,013.01            | 32.87           | 31.92       | 98.77                 | -396.30                           | 104.57     | 1,429.21             | 1,364.68              | 64.53                   | 22.149            |                                                                                      |  |                    |  |         |
| 9,150.00                   | 8,823.77            | 9,243.53            | 9,041.66            | 33.10           | 32.26       | 99.09                 | -395.46                           | 181.18     | 1,429.88             | 1,364.82              | 65.07                   | 21.976            |                                                                                      |  |                    |  |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 623H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Site Error:</b> | 0.00 ft |
|-----------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 0-MWD+IFR1                                                                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                           | Warning |
| Measured Depth (ft)                                                                                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor         |         |
| 9,200.00                                                                                                  | 8,831.47            | 9,326.85            | 9,059.31            | 33.34           | 32.67       | 99.26                 | -394.56                           | 262.53     | 1,430.11             | 1,364.41              | 65.70                   | 21.769                    |         |
| 9,250.00                                                                                                  | 8,834.84            | 9,409.45            | 9,065.00            | 33.60           | 33.11       | 99.29                 | -393.65                           | 344.86     | 1,429.87             | 1,363.46              | 66.41                   | 21.532                    |         |
| 9,263.62                                                                                                  | 8,835.00            | 9,423.07            | 9,065.00            | 33.67           | 33.20       | 99.29                 | -393.50                           | 358.48     | 1,429.77             | 1,363.20              | 66.57                   | 21.478                    |         |
| 9,300.00                                                                                                  | 8,835.00            | 9,459.45            | 9,065.00            | 33.88           | 33.42       | 99.29                 | -393.10                           | 394.86     | 1,429.59             | 1,362.58              | 67.01                   | 21.334                    |         |
| 9,400.00                                                                                                  | 8,835.00            | 9,559.45            | 9,065.00            | 34.53           | 34.11       | 99.30                 | -392.00                           | 494.85     | 1,429.09             | 1,360.73              | 68.36                   | 20.904                    |         |
| 9,500.00                                                                                                  | 8,835.00            | 9,659.45            | 9,065.00            | 35.30           | 34.90       | 99.30                 | -390.90                           | 594.84     | 1,428.59             | 1,358.67              | 69.92                   | 20.431                    |         |
| 9,600.00                                                                                                  | 8,835.00            | 9,759.45            | 9,065.00            | 36.17           | 35.80       | 99.30                 | -389.80                           | 694.83     | 1,428.10             | 1,356.42              | 71.68                   | 19.923                    |         |
| 9,700.00                                                                                                  | 8,835.00            | 9,859.45            | 9,065.00            | 37.13           | 36.78       | 99.31                 | -388.70                           | 794.83     | 1,427.60             | 1,353.98              | 73.62                   | 19.393                    |         |
| 9,800.00                                                                                                  | 8,835.00            | 9,959.45            | 9,065.00            | 38.18           | 37.85       | 99.31                 | -387.60                           | 894.82     | 1,427.10             | 1,351.38              | 75.72                   | 18.848                    |         |
| 9,900.00                                                                                                  | 8,835.00            | 10,059.45           | 9,065.00            | 39.31           | 39.00       | 99.31                 | -386.50                           | 994.81     | 1,426.60             | 1,348.63              | 77.97                   | 18.296                    |         |
| 10,000.00                                                                                                 | 8,835.00            | 10,159.44           | 9,065.00            | 40.51           | 40.22       | 99.32                 | -385.40                           | 1,094.80   | 1,426.11             | 1,345.73              | 80.37                   | 17.744                    |         |
| 10,100.00                                                                                                 | 8,835.00            | 10,259.44           | 9,065.00            | 41.78           | 41.50       | 99.32                 | -384.30                           | 1,194.80   | 1,425.61             | 1,342.71              | 82.90                   | 17.197                    |         |
| 10,200.00                                                                                                 | 8,835.00            | 10,359.44           | 9,065.00            | 43.10           | 42.85       | 99.32                 | -383.20                           | 1,294.79   | 1,425.11             | 1,339.57              | 85.54                   | 16.660                    |         |
| 10,300.00                                                                                                 | 8,835.00            | 10,459.44           | 9,065.00            | 44.49           | 44.24       | 99.33                 | -382.10                           | 1,394.78   | 1,424.61             | 1,336.32              | 88.29                   | 16.136                    |         |
| 10,400.00                                                                                                 | 8,835.00            | 10,559.44           | 9,065.00            | 45.92           | 45.69       | 99.33                 | -381.00                           | 1,494.77   | 1,424.11             | 1,332.98              | 91.13                   | 15.627                    |         |
| 10,500.00                                                                                                 | 8,835.00            | 10,659.44           | 9,065.00            | 47.39           | 47.18       | 99.33                 | -379.90                           | 1,594.77   | 1,423.62             | 1,329.55              | 94.07                   | 15.134                    |         |
| 10,600.00                                                                                                 | 8,835.00            | 10,759.44           | 9,065.00            | 48.91           | 48.71       | 99.34                 | -378.80                           | 1,694.76   | 1,423.12             | 1,326.04              | 97.08                   | 14.659                    |         |
| 10,700.00                                                                                                 | 8,835.00            | 10,859.43           | 9,065.00            | 50.47           | 50.28       | 99.34                 | -377.70                           | 1,794.75   | 1,422.62             | 1,322.45              | 100.17                  | 14.203                    |         |
| 10,800.00                                                                                                 | 8,835.00            | 10,959.43           | 9,065.00            | 52.06           | 51.88       | 99.34                 | -376.60                           | 1,894.75   | 1,422.12             | 1,318.80              | 103.32                  | 13.764                    |         |
| 10,900.00                                                                                                 | 8,835.00            | 11,059.43           | 9,065.00            | 53.68           | 53.51       | 99.35                 | -375.50                           | 1,994.74   | 1,421.62             | 1,315.09              | 106.53                  | 13.345                    |         |
| 11,000.00                                                                                                 | 8,835.00            | 11,159.43           | 9,065.00            | 55.32           | 55.17       | 99.35                 | -374.40                           | 2,094.73   | 1,421.13             | 1,311.33              | 109.80                  | 12.943                    |         |
| 11,100.00                                                                                                 | 8,835.00            | 11,259.43           | 9,065.00            | 57.00           | 56.86       | 99.35                 | -373.30                           | 2,194.72   | 1,420.63             | 1,307.51              | 113.12                  | 12.559                    |         |
| 11,200.00                                                                                                 | 8,835.00            | 11,359.43           | 9,065.00            | 58.70           | 58.56       | 99.36                 | -372.19                           | 2,294.72   | 1,420.13             | 1,303.65              | 116.48                  | 12.192                    |         |
| 11,300.00                                                                                                 | 8,835.00            | 11,459.43           | 9,065.00            | 60.41           | 60.29       | 99.36                 | -371.09                           | 2,394.71   | 1,419.63             | 1,299.74              | 119.89                  | 11.841                    |         |
| 11,400.00                                                                                                 | 8,835.00            | 11,559.43           | 9,065.00            | 62.15           | 62.04       | 99.36                 | -369.99                           | 2,494.70   | 1,419.13             | 1,295.80              | 123.33                  | 11.506                    |         |
| 11,500.00                                                                                                 | 8,835.00            | 11,659.42           | 9,065.00            | 63.91           | 63.80       | 99.37                 | -368.89                           | 2,594.69   | 1,418.64             | 1,291.82              | 126.81                  | 11.187                    |         |
| 11,600.00                                                                                                 | 8,835.00            | 11,759.42           | 9,065.00            | 65.69           | 65.59       | 99.37                 | -367.79                           | 2,694.69   | 1,418.14             | 1,287.81              | 130.33                  | 10.881                    |         |
| 11,700.00                                                                                                 | 8,835.00            | 11,859.42           | 9,065.00            | 67.47           | 67.38       | 99.37                 | -366.69                           | 2,794.68   | 1,417.64             | 1,283.77              | 133.87                  | 10.590                    |         |
| 11,800.00                                                                                                 | 8,835.00            | 11,959.42           | 9,065.00            | 69.28           | 69.19       | 99.38                 | -365.59                           | 2,894.67   | 1,417.14             | 1,279.70              | 137.44                  | 10.311                    |         |
| 11,900.00                                                                                                 | 8,835.00            | 12,059.42           | 9,065.00            | 71.09           | 71.01       | 99.38                 | -364.49                           | 2,994.66   | 1,416.64             | 1,275.61              | 141.04                  | 10.044                    |         |
| 12,000.00                                                                                                 | 8,835.00            | 12,159.42           | 9,065.00            | 72.92           | 72.85       | 99.38                 | -363.39                           | 3,094.66   | 1,416.15             | 1,271.49              | 144.66                  | 9.790                     |         |
| 12,100.00                                                                                                 | 8,835.00            | 12,259.42           | 9,065.00            | 74.76           | 74.70       | 99.39                 | -362.29                           | 3,194.65   | 1,415.65             | 1,267.35              | 148.30                  | 9.546                     |         |
| 12,200.00                                                                                                 | 8,835.00            | 12,359.42           | 9,065.00            | 76.61           | 76.55       | 99.39                 | -361.19                           | 3,294.64   | 1,415.15             | 1,263.19              | 151.96                  | 9.312                     |         |
| 12,300.00                                                                                                 | 8,835.00            | 12,459.41           | 9,065.00            | 78.47           | 78.42       | 99.39                 | -360.09                           | 3,394.64   | 1,414.65             | 1,259.01              | 155.64                  | 9.089                     |         |
| 12,400.00                                                                                                 | 8,835.00            | 12,559.41           | 9,065.00            | 80.34           | 80.29       | 99.40                 | -358.99                           | 3,494.63   | 1,414.16             | 1,254.81              | 159.34                  | 8.875                     |         |
| 12,500.00                                                                                                 | 8,835.00            | 12,659.41           | 9,065.00            | 82.22           | 82.17       | 99.40                 | -357.89                           | 3,594.62   | 1,413.66             | 1,250.60              | 163.06                  | 8.670                     |         |
| 12,600.00                                                                                                 | 8,835.00            | 12,759.41           | 9,065.00            | 84.11           | 84.06       | 99.40                 | -356.79                           | 3,694.61   | 1,413.16             | 1,246.37              | 166.79                  | 8.473                     |         |
| 12,700.00                                                                                                 | 8,835.00            | 12,859.41           | 9,065.00            | 86.00           | 85.96       | 99.41                 | -355.69                           | 3,794.61   | 1,412.66             | 1,242.13              | 170.53                  | 8.284                     |         |
| 12,800.00                                                                                                 | 8,835.00            | 12,959.41           | 9,065.00            | 87.90           | 87.86       | 99.41                 | -354.59                           | 3,894.60   | 1,412.16             | 1,237.87              | 174.29                  | 8.102                     |         |
| 12,900.00                                                                                                 | 8,835.00            | 13,059.41           | 9,065.00            | 89.81           | 89.77       | 99.41                 | -353.49                           | 3,994.59   | 1,411.67             | 1,233.60              | 178.06                  | 7.928                     |         |
| 13,000.00                                                                                                 | 8,835.00            | 13,159.41           | 9,065.00            | 91.72           | 91.69       | 99.42                 | -352.39                           | 4,094.58   | 1,411.17             | 1,229.32              | 181.85                  | 7.760                     |         |
| 13,100.00                                                                                                 | 8,835.00            | 13,259.40           | 9,065.00            | 93.64           | 93.61       | 99.42                 | -351.28                           | 4,194.58   | 1,410.67             | 1,225.03              | 185.64                  | 7.599                     |         |
| 13,200.00                                                                                                 | 8,835.00            | 13,359.40           | 9,065.00            | 95.56           | 95.54       | 99.42                 | -350.18                           | 4,294.57   | 1,410.17             | 1,220.73              | 189.44                  | 7.444                     |         |
| 13,300.00                                                                                                 | 8,835.00            | 13,459.40           | 9,065.00            | 97.49           | 97.47       | 99.43                 | -349.08                           | 4,394.56   | 1,409.67             | 1,216.42              | 193.26                  | 7.294                     |         |
| 13,400.00                                                                                                 | 8,835.00            | 13,559.40           | 9,065.00            | 99.42           | 99.40       | 99.43                 | -347.98                           | 4,494.55   | 1,409.18             | 1,212.10              | 197.08                  | 7.150                     |         |
| 13,500.00                                                                                                 | 8,835.00            | 13,659.40           | 9,065.00            | 101.36          | 101.34      | 99.43                 | -346.88                           | 4,594.55   | 1,408.68             | 1,207.77              | 200.91                  | 7.011                     |         |
| 13,600.00                                                                                                 | 8,835.00            | 13,759.40           | 9,065.00            | 103.30          | 103.29      | 99.44                 | -345.78                           | 4,694.54   | 1,408.18             | 1,203.43              | 204.75                  | 6.878                     |         |
| 13,700.00                                                                                                 | 8,835.00            | 13,859.40           | 9,065.00            | 105.25          | 105.23      | 99.44                 | -344.68                           | 4,794.53   | 1,407.68             | 1,199.09              | 208.60                  | 6.748                     |         |
| 13,800.00                                                                                                 | 8,835.00            | 13,959.40           | 9,065.00            | 107.20          | 107.19      | 99.44                 | -343.58                           | 4,894.53   | 1,407.19             | 1,194.73              | 212.45                  | 6.624                     |         |
| 13,900.00                                                                                                 | 8,835.00            | 14,059.39           | 9,065.00            | 109.15          | 109.14      | 99.45                 | -342.48                           | 4,994.52   | 1,406.69             | 1,190.37              | 216.31                  | 6.503                     |         |
| 14,000.00                                                                                                 | 8,835.00            | 14,159.39           | 9,065.00            | 111.10          | 111.10      | 99.45                 | -341.38                           | 5,094.51   | 1,406.19             | 1,186.01              | 220.18                  | 6.387                     |         |
| 14,100.00                                                                                                 | 8,835.00            | 14,259.39           | 9,065.00            | 113.06          | 113.06      | 99.45                 | -340.28                           | 5,194.50   | 1,405.69             | 1,181.64              | 224.06                  | 6.274                     |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 623H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Site Error:</b> | 0.00 ft |
|-----------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 0-MWD+IFR1                                                                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                           | Warning |
| Measured Depth (ft)                                                                                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor         |         |
| 14,200.00                                                                                                 | 8,835.00            | 14,359.39           | 9,065.00            | 115.03          | 115.03      | 99.46                 | -339.18                           | 5,294.50   | 1,405.19             | 1,177.26              | 227.94                  | 6.165                     |         |
| 14,300.00                                                                                                 | 8,835.00            | 14,459.39           | 9,065.00            | 116.99          | 116.99      | 99.46                 | -338.08                           | 5,394.49   | 1,404.70             | 1,172.88              | 231.82                  | 6.059                     |         |
| 14,400.00                                                                                                 | 8,835.00            | 14,559.39           | 9,065.00            | 118.96          | 118.96      | 99.46                 | -336.98                           | 5,494.48   | 1,404.20             | 1,168.49              | 235.71                  | 5.957                     |         |
| 14,500.00                                                                                                 | 8,835.00            | 14,659.39           | 9,065.00            | 120.93          | 120.93      | 99.47                 | -335.88                           | 5,594.47   | 1,403.70             | 1,164.09              | 239.61                  | 5.858                     |         |
| 14,600.00                                                                                                 | 8,835.00            | 14,759.39           | 9,065.00            | 122.90          | 122.91      | 99.47                 | -334.78                           | 5,694.47   | 1,403.20             | 1,159.70              | 243.51                  | 5.762                     |         |
| 14,700.00                                                                                                 | 8,835.00            | 14,859.38           | 9,065.00            | 124.88          | 124.89      | 99.47                 | -333.68                           | 5,794.46   | 1,402.71             | 1,155.29              | 247.41                  | 5.670                     |         |
| 14,800.00                                                                                                 | 8,835.00            | 14,959.38           | 9,065.00            | 126.86          | 126.86      | 99.48                 | -332.58                           | 5,894.45   | 1,402.21             | 1,150.89              | 251.32                  | 5.579                     |         |
| 14,900.00                                                                                                 | 8,835.00            | 15,059.38           | 9,065.00            | 128.84          | 128.85      | 99.48                 | -331.48                           | 5,994.44   | 1,401.71             | 1,146.48              | 255.24                  | 5.492                     |         |
| 15,000.00                                                                                                 | 8,835.00            | 15,159.38           | 9,065.00            | 130.82          | 130.83      | 99.48                 | -330.38                           | 6,094.44   | 1,401.21             | 1,142.06              | 259.15                  | 5.407                     |         |
| 15,100.00                                                                                                 | 8,835.00            | 15,259.38           | 9,065.00            | 132.80          | 132.81      | 99.49                 | -329.27                           | 6,194.43   | 1,400.72             | 1,137.64              | 263.07                  | 5.324                     |         |
| 15,200.00                                                                                                 | 8,835.00            | 15,359.38           | 9,065.00            | 134.79          | 134.80      | 99.49                 | -328.17                           | 6,294.42   | 1,400.22             | 1,133.22              | 267.00                  | 5.244                     |         |
| 15,300.00                                                                                                 | 8,835.00            | 15,459.38           | 9,065.00            | 136.78          | 136.79      | 99.50                 | -327.07                           | 6,394.42   | 1,399.72             | 1,128.79              | 270.93                  | 5.166                     |         |
| 15,400.00                                                                                                 | 8,835.00            | 15,559.38           | 9,065.00            | 138.76          | 138.78      | 99.50                 | -325.97                           | 6,494.41   | 1,399.22             | 1,124.36              | 274.86                  | 5.091                     |         |
| 15,500.00                                                                                                 | 8,835.00            | 15,659.37           | 9,065.00            | 140.76          | 140.77      | 99.50                 | -324.87                           | 6,594.40   | 1,398.72             | 1,119.93              | 278.79                  | 5.017                     |         |
| 15,600.00                                                                                                 | 8,835.00            | 15,759.37           | 9,065.00            | 142.75          | 142.76      | 99.51                 | -323.77                           | 6,694.39   | 1,398.23             | 1,115.50              | 282.73                  | 4.945 Alert               |         |
| 15,700.00                                                                                                 | 8,835.00            | 15,859.37           | 9,065.00            | 144.74          | 144.76      | 99.51                 | -322.67                           | 6,794.39   | 1,397.73             | 1,111.06              | 286.67                  | 4.876 Alert               |         |
| 15,800.00                                                                                                 | 8,835.00            | 15,959.37           | 9,065.00            | 146.74          | 146.75      | 99.51                 | -321.57                           | 6,894.38   | 1,397.23             | 1,106.62              | 290.61                  | 4.808 Alert               |         |
| 15,900.00                                                                                                 | 8,835.00            | 16,059.37           | 9,065.00            | 148.73          | 148.75      | 99.52                 | -320.47                           | 6,994.37   | 1,396.73             | 1,102.17              | 294.56                  | 4.742 Alert               |         |
| 16,000.00                                                                                                 | 8,835.00            | 16,159.37           | 9,065.00            | 150.73          | 150.75      | 99.52                 | -319.37                           | 7,094.36   | 1,396.24             | 1,097.73              | 298.51                  | 4.677 Alert               |         |
| 16,100.00                                                                                                 | 8,835.00            | 16,259.37           | 9,065.00            | 152.73          | 152.75      | 99.52                 | -318.27                           | 7,194.36   | 1,395.74             | 1,093.28              | 302.46                  | 4.615 Alert               |         |
| 16,200.00                                                                                                 | 8,835.00            | 16,359.36           | 9,065.00            | 154.73          | 154.75      | 99.53                 | -317.17                           | 7,294.35   | 1,395.24             | 1,088.83              | 306.41                  | 4.553 Alert               |         |
| 16,300.00                                                                                                 | 8,835.00            | 16,459.36           | 9,065.00            | 156.73          | 156.75      | 99.53                 | -316.07                           | 7,394.34   | 1,394.74             | 1,084.38              | 310.37                  | 4.494 Alert               |         |
| 16,400.00                                                                                                 | 8,835.00            | 16,559.36           | 9,065.00            | 158.74          | 158.76      | 99.53                 | -314.97                           | 7,494.33   | 1,394.25             | 1,079.92              | 314.32                  | 4.436 Alert               |         |
| 16,500.00                                                                                                 | 8,835.00            | 16,659.36           | 9,065.00            | 160.74          | 160.76      | 99.54                 | -313.87                           | 7,594.33   | 1,393.75             | 1,075.46              | 318.28                  | 4.379 Alert               |         |
| 16,600.00                                                                                                 | 8,835.00            | 16,759.36           | 9,065.00            | 162.74          | 162.77      | 99.54                 | -312.77                           | 7,694.32   | 1,393.25             | 1,071.00              | 322.25                  | 4.324 Alert               |         |
| 16,700.00                                                                                                 | 8,835.00            | 16,859.36           | 9,065.00            | 164.75          | 164.77      | 99.54                 | -311.67                           | 7,794.31   | 1,392.75             | 1,066.54              | 326.21                  | 4.270 Alert               |         |
| 16,800.00                                                                                                 | 8,835.00            | 16,959.36           | 9,065.00            | 166.76          | 166.78      | 99.55                 | -310.57                           | 7,894.31   | 1,392.25             | 1,062.08              | 330.17                  | 4.217 Alert               |         |
| 16,900.00                                                                                                 | 8,835.00            | 17,059.36           | 9,065.00            | 168.77          | 168.79      | 99.55                 | -309.47                           | 7,994.30   | 1,391.76             | 1,057.62              | 334.14                  | 4.165 Alert               |         |
| 17,000.00                                                                                                 | 8,835.00            | 17,159.35           | 9,065.00            | 170.77          | 170.80      | 99.55                 | -308.36                           | 8,094.29   | 1,391.26             | 1,053.15              | 338.11                  | 4.115 Alert               |         |
| 17,100.00                                                                                                 | 8,835.00            | 17,259.35           | 9,065.00            | 172.78          | 172.81      | 99.56                 | -307.26                           | 8,194.28   | 1,390.76             | 1,048.68              | 342.08                  | 4.066 Alert               |         |
| 17,200.00                                                                                                 | 8,835.00            | 17,359.35           | 9,065.00            | 174.79          | 174.82      | 99.56                 | -306.16                           | 8,294.28   | 1,390.26             | 1,044.21              | 346.05                  | 4.017 Alert               |         |
| 17,300.00                                                                                                 | 8,835.00            | 17,459.35           | 9,065.00            | 176.81          | 176.83      | 99.56                 | -305.06                           | 8,394.27   | 1,389.77             | 1,039.74              | 350.03                  | 3.970 Alert               |         |
| 17,400.00                                                                                                 | 8,835.00            | 17,559.35           | 9,065.00            | 178.82          | 178.84      | 99.57                 | -303.96                           | 8,494.26   | 1,389.27             | 1,035.27              | 354.00                  | 3.924 Alert               |         |
| 17,500.00                                                                                                 | 8,835.00            | 17,659.35           | 9,065.00            | 180.83          | 180.85      | 99.57                 | -302.86                           | 8,594.25   | 1,388.77             | 1,030.79              | 357.98                  | 3.879 Alert               |         |
| 17,600.00                                                                                                 | 8,835.00            | 17,759.35           | 9,065.00            | 182.84          | 182.87      | 99.57                 | -301.76                           | 8,694.25   | 1,388.27             | 1,026.32              | 361.96                  | 3.835 Alert               |         |
| 17,700.00                                                                                                 | 8,835.00            | 17,859.35           | 9,065.00            | 184.86          | 184.88      | 99.58                 | -300.66                           | 8,794.24   | 1,387.78             | 1,021.84              | 365.94                  | 3.792 Alert               |         |
| 17,800.00                                                                                                 | 8,835.00            | 17,959.34           | 9,065.00            | 186.87          | 186.90      | 99.58                 | -299.56                           | 8,894.23   | 1,387.28             | 1,017.36              | 369.92                  | 3.750 Alert               |         |
| 17,900.00                                                                                                 | 8,835.00            | 18,059.34           | 9,065.00            | 188.89          | 188.91      | 99.58                 | -298.46                           | 8,994.23   | 1,386.78             | 1,012.88              | 373.90                  | 3.709 Alert               |         |
| 18,000.00                                                                                                 | 8,835.00            | 18,159.34           | 9,065.00            | 190.91          | 190.93      | 99.59                 | -297.36                           | 9,094.22   | 1,386.28             | 1,008.40              | 377.88                  | 3.669 Alert               |         |
| 18,100.00                                                                                                 | 8,835.00            | 18,259.34           | 9,065.00            | 192.92          | 192.95      | 99.59                 | -296.26                           | 9,194.21   | 1,385.79             | 1,003.92              | 381.86                  | 3.629 Alert               |         |
| 18,200.00                                                                                                 | 8,835.00            | 18,359.34           | 9,065.00            | 194.94          | 194.96      | 99.59                 | -295.16                           | 9,294.20   | 1,385.29             | 999.44                | 385.85                  | 3.590 Alert               |         |
| 18,300.00                                                                                                 | 8,835.00            | 18,459.34           | 9,065.00            | 196.96          | 196.98      | 99.60                 | -294.06                           | 9,394.20   | 1,384.79             | 994.95                | 389.84                  | 3.552 Alert               |         |
| 18,400.00                                                                                                 | 8,835.00            | 18,559.34           | 9,065.00            | 198.98          | 199.00      | 99.60                 | -292.96                           | 9,494.19   | 1,384.29             | 990.47                | 393.82                  | 3.515 Alert               |         |
| 18,500.00                                                                                                 | 8,835.00            | 18,659.34           | 9,065.00            | 201.00          | 201.02      | 99.61                 | -291.86                           | 9,594.18   | 1,383.80             | 985.98                | 397.81                  | 3.479 Alert               |         |
| 18,600.00                                                                                                 | 8,835.00            | 18,759.33           | 9,065.00            | 203.02          | 203.04      | 99.61                 | -290.76                           | 9,694.17   | 1,383.30             | 981.50                | 401.80                  | 3.443 Alert               |         |
| 18,700.00                                                                                                 | 8,835.00            | 18,859.33           | 9,065.00            | 205.04          | 205.06      | 99.61                 | -289.66                           | 9,794.17   | 1,382.80             | 977.01                | 405.79                  | 3.408 Alert               |         |
| 18,800.00                                                                                                 | 8,835.00            | 18,959.33           | 9,065.00            | 207.06          | 207.08      | 99.62                 | -288.56                           | 9,894.16   | 1,382.30             | 972.52                | 409.78                  | 3.373 Alert               |         |
| 18,900.00                                                                                                 | 8,835.00            | 19,059.33           | 9,065.00            | 209.08          | 209.10      | 99.62                 | -287.46                           | 9,994.15   | 1,381.81             | 968.03                | 413.77                  | 3.340 Alert               |         |
| 19,000.00                                                                                                 | 8,835.00            | 19,159.33           | 9,065.00            | 211.10          | 211.12      | 99.62                 | -286.35                           | 10,094.14  | 1,381.31             | 963.54                | 417.77                  | 3.306 Alert               |         |
| 19,100.00                                                                                                 | 8,835.00            | 19,259.33           | 9,065.00            | 213.12          | 213.15      | 99.63                 | -285.25                           | 10,194.14  | 1,380.81             | 959.05                | 421.76                  | 3.274 Alert               |         |
| 19,200.00                                                                                                 | 8,835.00            | 19,359.33           | 9,065.00            | 215.15          | 215.17      | 99.63                 | -284.15                           | 10,294.13  | 1,380.31             | 954.56                | 425.76                  | 3.242 Alert               |         |
| 19,302.28                                                                                                 | 8,835.00            | 19,461.61           | 9,065.00            | 217.22          | 217.24      | 99.63                 | -283.03                           | 10,396.40  | 1,379.80             | 949.96                | 429.84                  | 3.210 Alert               |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

|                            |                           |                           |                           |                   |                |                             |                                         |               |                            |                             |                               |                           |           |
|----------------------------|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|-----------|
| <b>Offset Design</b>       |                           |                           |                           |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 0.00 ft   |
| Survey Program: 0-MWD+IFR1 |                           |                           |                           |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 0.50 ft   |
| Reference                  |                           | Offset                    |                           | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                           | Warning   |
| Measured<br>Depth<br>(ft)  | Vertical<br>Depth<br>(ft) | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |           |
| 19,308.27                  | 8,835.00                  | 19,456.84                 | 9,065.00                  | 217.34            | 217.14         | 99.63                       | -283.08                                 | 10,391.64     | 1,379.82                   | 949.96                      | 429.86                        | 3.210                     | Alert, SF |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                        | 0.00                | 0.00                | 0.00                | 0.50            | 0.50        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.68             |                       |                         |                   |                    |         |
| 100.00                      | 100.00              | 50.20               | 50.20               | 0.52            | 0.78        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,376.01              | 1.30                    | 2,597.236         |                    |         |
| 200.00                      | 200.00              | 150.20              | 150.20              | 0.70            | 2.16        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,374.45              | 2.86                    | 1,180.686         |                    |         |
| 300.00                      | 300.00              | 250.20              | 250.20              | 0.99            | 3.63        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,372.69              | 4.62                    | 731.150           |                    |         |
| 400.00                      | 400.00              | 350.20              | 350.20              | 1.31            | 5.12        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,370.88              | 6.43                    | 525.371           |                    |         |
| 500.00                      | 500.00              | 450.20              | 450.20              | 1.65            | 6.61        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,369.05              | 8.26                    | 408.999           |                    |         |
| 600.00                      | 600.00              | 550.20              | 550.20              | 1.99            | 8.11        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,367.21              | 10.10                   | 334.516           |                    |         |
| 700.00                      | 700.00              | 650.20              | 650.20              | 2.34            | 9.60        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,365.37              | 11.94                   | 282.856           |                    |         |
| 800.00                      | 800.00              | 750.20              | 750.20              | 2.69            | 11.10       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,363.52              | 13.79                   | 244.960           |                    |         |
| 900.00                      | 900.00              | 850.20              | 850.20              | 3.04            | 12.59       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,361.67              | 15.64                   | 215.990           |                    |         |
| 1,000.00                    | 1,000.00            | 950.20              | 950.20              | 3.40            | 14.09       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,359.82              | 17.49                   | 193.132           |                    |         |
| 1,100.00                    | 1,100.00            | 1,050.20            | 1,050.20            | 3.75            | 15.59       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,357.97              | 19.34                   | 174.640           |                    |         |
| 1,200.00                    | 1,200.00            | 1,150.20            | 1,150.20            | 4.11            | 17.08       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,356.12              | 21.19                   | 159.373           |                    |         |
| 1,300.00                    | 1,300.00            | 1,250.20            | 1,250.20            | 4.46            | 18.58       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,354.27              | 23.04                   | 146.558           |                    |         |
| 1,400.00                    | 1,400.00            | 1,350.20            | 1,350.20            | 4.82            | 20.08       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,352.41              | 24.90                   | 135.647           |                    |         |
| 1,500.00                    | 1,500.00            | 1,450.20            | 1,450.20            | 5.18            | 21.57       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,350.56              | 26.75                   | 126.247           |                    |         |
| 1,600.00                    | 1,600.00            | 1,550.20            | 1,550.20            | 5.53            | 23.07       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,348.70              | 28.61                   | 118.064           |                    |         |
| 1,700.00                    | 1,700.00            | 1,650.20            | 1,650.20            | 5.89            | 24.57       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,346.85              | 30.46                   | 110.877           |                    |         |
| 1,800.00                    | 1,800.00            | 1,750.20            | 1,750.20            | 6.25            | 26.07       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,345.00              | 32.31                   | 104.513           |                    |         |
| 1,900.00                    | 1,900.00            | 1,850.20            | 1,850.20            | 6.61            | 27.56       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,343.14              | 34.17                   | 98.840            |                    |         |
| 2,000.00                    | 2,000.00            | 1,950.20            | 1,950.20            | 6.96            | 29.06       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,341.29              | 36.02                   | 93.751            |                    |         |
| 2,100.00                    | 2,099.99            | 2,050.19            | 2,050.19            | 7.32            | 30.56       | 127.48                | -1,411.08                         | 3,068.40   | 3,377.84             | 3,339.96              | 37.88                   | 89.175            |                    |         |
| 2,200.00                    | 2,199.96            | 2,150.16            | 2,150.16            | 7.68            | 32.06       | 127.51                | -1,411.08                         | 3,068.40   | 3,379.43             | 3,339.70              | 39.73                   | 85.055            |                    |         |
| 2,300.00                    | 2,299.86            | 2,250.06            | 2,250.06            | 8.04            | 33.55       | 127.54                | -1,411.08                         | 3,068.40   | 3,382.09             | 3,340.51              | 41.58                   | 81.331            |                    |         |
| 2,400.00                    | 2,399.68            | 2,349.88            | 2,349.88            | 8.39            | 35.05       | 127.60                | -1,411.08                         | 3,068.40   | 3,385.82             | 3,342.38              | 43.43                   | 77.952            |                    |         |
| 2,500.00                    | 2,499.37            | 2,449.57            | 2,449.57            | 8.75            | 36.54       | 127.66                | -1,411.08                         | 3,068.40   | 3,390.62             | 3,345.34              | 45.28                   | 74.876            |                    |         |
| 2,600.00                    | 2,598.90            | 2,549.10            | 2,549.10            | 9.11            | 38.03       | 127.74                | -1,411.08                         | 3,068.40   | 3,396.50             | 3,349.37              | 47.13                   | 72.068            |                    |         |
| 2,700.00                    | 2,698.26            | 2,648.46            | 2,648.46            | 9.46            | 39.52       | 127.84                | -1,411.08                         | 3,068.40   | 3,403.46             | 3,354.49              | 48.97                   | 69.497            |                    |         |
| 2,800.00                    | 2,797.40            | 2,747.60            | 2,747.60            | 9.82            | 41.00       | 127.95                | -1,411.08                         | 3,068.40   | 3,411.52             | 3,360.71              | 50.81                   | 67.139            |                    |         |
| 2,900.00                    | 2,896.30            | 2,846.50            | 2,846.50            | 10.18           | 42.48       | 128.07                | -1,411.08                         | 3,068.40   | 3,420.69             | 3,368.04              | 52.65                   | 64.971            |                    |         |
| 3,000.00                    | 2,994.93            | 2,945.13            | 2,945.13            | 10.54           | 43.96       | 128.20                | -1,411.08                         | 3,068.40   | 3,430.97             | 3,376.48              | 54.48                   | 62.973            |                    |         |
| 3,100.00                    | 3,093.26            | 3,043.46            | 3,043.46            | 10.90           | 45.43       | 128.35                | -1,411.08                         | 3,068.40   | 3,442.37             | 3,386.06              | 56.31                   | 61.130            |                    |         |
| 3,195.07                    | 3,186.42            | 3,136.62            | 3,136.62            | 11.24           | 46.83       | 128.50                | -1,411.08                         | 3,068.40   | 3,454.27             | 3,396.22              | 58.05                   | 59.507            |                    |         |
| 3,200.00                    | 3,191.25            | 3,141.45            | 3,141.45            | 11.26           | 46.90       | 128.51                | -1,411.08                         | 3,068.40   | 3,454.92             | 3,396.78              | 58.14                   | 59.425            |                    |         |
| 3,300.00                    | 3,289.08            | 3,239.28            | 3,239.28            | 11.62           | 48.37       | 128.78                | -1,411.08                         | 3,068.40   | 3,468.02             | 3,408.06              | 59.96                   | 57.836            |                    |         |
| 3,400.00                    | 3,386.91            | 3,337.11            | 3,337.11            | 11.98           | 49.83       | 129.04                | -1,411.08                         | 3,068.40   | 3,481.20             | 3,419.41              | 61.79                   | 56.341            |                    |         |
| 3,500.00                    | 3,484.74            | 3,434.94            | 3,434.94            | 12.35           | 51.30       | 129.30                | -1,411.08                         | 3,068.40   | 3,494.45             | 3,430.83              | 63.62                   | 54.931            |                    |         |
| 3,600.00                    | 3,582.58            | 3,532.78            | 3,532.78            | 12.72           | 52.76       | 129.56                | -1,411.08                         | 3,068.40   | 3,507.77             | 3,442.33              | 65.44                   | 53.599            |                    |         |
| 3,700.00                    | 3,680.41            | 3,630.61            | 3,630.61            | 13.09           | 54.23       | 129.81                | -1,411.08                         | 3,068.40   | 3,521.16             | 3,453.89              | 67.27                   | 52.340            |                    |         |
| 3,800.00                    | 3,778.24            | 3,728.44            | 3,728.44            | 13.46           | 55.69       | 130.07                | -1,411.08                         | 3,068.40   | 3,534.63             | 3,465.52              | 69.11                   | 51.148            |                    |         |
| 3,900.00                    | 3,876.08            | 3,826.28            | 3,826.28            | 13.83           | 57.16       | 130.32                | -1,411.08                         | 3,068.40   | 3,548.16             | 3,477.22              | 70.94                   | 50.018            |                    |         |
| 4,000.00                    | 3,973.91            | 3,924.11            | 3,924.11            | 14.21           | 58.62       | 130.57                | -1,411.08                         | 3,068.40   | 3,561.76             | 3,488.99              | 72.77                   | 48.945            |                    |         |
| 4,100.00                    | 4,071.74            | 4,021.94            | 4,021.94            | 14.58           | 60.09       | 130.82                | -1,411.08                         | 3,068.40   | 3,575.44             | 3,500.83              | 74.60                   | 47.925            |                    |         |
| 4,200.00                    | 4,169.57            | 4,119.77            | 4,119.77            | 14.96           | 61.55       | 131.07                | -1,411.08                         | 3,068.40   | 3,589.17             | 3,512.73              | 76.44                   | 46.954            |                    |         |
| 4,300.00                    | 4,267.41            | 4,217.61            | 4,217.61            | 15.33           | 63.02       | 131.31                | -1,411.08                         | 3,068.40   | 3,602.98             | 3,524.70              | 78.28                   | 46.030            |                    |         |
| 4,400.00                    | 4,365.24            | 4,315.44            | 4,315.44            | 15.71           | 64.48       | 131.56                | -1,411.08                         | 3,068.40   | 3,616.85             | 3,536.74              | 80.11                   | 45.148            |                    |         |
| 4,500.00                    | 4,463.07            | 4,413.27            | 4,413.27            | 16.09           | 65.95       | 131.80                | -1,411.08                         | 3,068.40   | 3,630.79             | 3,548.84              | 81.95                   | 44.306            |                    |         |
| 4,600.00                    | 4,560.90            | 4,511.10            | 4,511.10            | 16.47           | 67.41       | 132.04                | -1,411.08                         | 3,068.40   | 3,644.79             | 3,561.00              | 83.79                   | 43.501            |                    |         |
| 4,700.00                    | 4,658.74            | 4,608.94            | 4,608.94            | 16.85           | 68.88       | 132.27                | -1,411.08                         | 3,068.40   | 3,658.85             | 3,573.23              | 85.62                   | 42.732            |                    |         |
| 4,800.00                    | 4,756.57            | 4,706.77            | 4,706.77            | 17.23           | 70.34       | 132.51                | -1,411.08                         | 3,068.40   | 3,672.98             | 3,585.52              | 87.46                   | 41.995            |                    |         |
| 4,900.00                    | 4,854.40            | 4,804.60            | 4,804.60            | 17.61           | 71.81       | 132.75                | -1,411.08                         | 3,068.40   | 3,687.17             | 3,597.87              | 89.30                   | 41.289            |                    |         |
| 5,000.00                    | 4,952.23            | 4,902.43            | 4,902.43            | 17.99           | 73.27       | 132.98                | -1,411.08                         | 3,068.40   | 3,701.42             | 3,610.28              | 91.14                   | 40.612            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                   |                           |                           |                           |                   |                |                             |                                         |               |                            |                             |                               |                      | Sec 14-T21S-R27E - Lonetree 14 State Com #001 - Wellbore #1 - Wellbore #1 |  | Offset Site Error: |  | 0.00 ft |
|---------------------------------|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|---------------------------------------------------------------------------|--|--------------------|--|---------|
| Survey Program: 10-INC-ONLY     |                           |                           |                           |                   |                |                             |                                         |               |                            |                             |                               |                      |                                                                           |  | Offset Well Error: |  | 0.50 ft |
| Reference                       |                           | Offset                    |                           | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                      |                                                                           |  |                    |  |         |
| Measured Depth<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor | Warning                                                                   |  |                    |  |         |
| 5,100.00                        | 5,050.07                  | 5,000.27                  | 5,000.27                  | 18.37             | 74.74          | 133.21                      | -1,411.08                               | 3,068.40      | 3,715.73                   | 3,622.75                    | 92.98                         | 39.962               |                                                                           |  |                    |  |         |
| 5,200.00                        | 5,147.90                  | 5,098.10                  | 5,098.10                  | 18.75             | 76.20          | 133.44                      | -1,411.08                               | 3,068.40      | 3,730.10                   | 3,635.28                    | 94.82                         | 39.338               |                                                                           |  |                    |  |         |
| 5,300.00                        | 5,245.73                  | 5,195.93                  | 5,195.93                  | 19.14             | 77.67          | 133.67                      | -1,411.08                               | 3,068.40      | 3,744.53                   | 3,647.87                    | 96.66                         | 38.739               |                                                                           |  |                    |  |         |
| 5,400.00                        | 5,343.56                  | 5,293.76                  | 5,293.76                  | 19.52             | 79.13          | 133.89                      | -1,411.08                               | 3,068.40      | 3,759.02                   | 3,660.52                    | 98.50                         | 38.162               |                                                                           |  |                    |  |         |
| 5,500.00                        | 5,441.40                  | 5,391.60                  | 5,391.60                  | 19.90             | 80.60          | 134.12                      | -1,411.08                               | 3,068.40      | 3,773.57                   | 3,673.22                    | 100.34                        | 37.606               |                                                                           |  |                    |  |         |
| 5,600.00                        | 5,539.23                  | 5,489.43                  | 5,489.43                  | 20.29             | 82.06          | 134.34                      | -1,411.08                               | 3,068.40      | 3,788.17                   | 3,685.99                    | 102.19                        | 37.072               |                                                                           |  |                    |  |         |
| 5,700.00                        | 5,637.06                  | 5,587.26                  | 5,587.26                  | 20.67             | 83.53          | 134.56                      | -1,411.08                               | 3,068.40      | 3,802.83                   | 3,698.81                    | 104.03                        | 36.556               |                                                                           |  |                    |  |         |
| 5,800.00                        | 5,734.90                  | 5,685.10                  | 5,685.10                  | 21.05             | 84.99          | 134.78                      | -1,411.08                               | 3,068.40      | 3,817.55                   | 3,711.68                    | 105.87                        | 36.059               |                                                                           |  |                    |  |         |
| 5,900.00                        | 5,832.73                  | 5,782.93                  | 5,782.93                  | 21.44             | 86.46          | 135.00                      | -1,411.08                               | 3,068.40      | 3,832.32                   | 3,724.61                    | 107.71                        | 35.579               |                                                                           |  |                    |  |         |
| 6,000.00                        | 5,930.56                  | 5,880.76                  | 5,880.76                  | 21.83             | 87.92          | 135.21                      | -1,411.08                               | 3,068.40      | 3,847.15                   | 3,737.60                    | 109.55                        | 35.116               |                                                                           |  |                    |  |         |
| 6,100.00                        | 6,028.39                  | 5,978.59                  | 5,978.59                  | 22.21             | 89.39          | 135.42                      | -1,411.08                               | 3,068.40      | 3,862.03                   | 3,750.64                    | 111.40                        | 34.669               |                                                                           |  |                    |  |         |
| 6,200.00                        | 6,126.23                  | 6,076.43                  | 6,076.43                  | 22.60             | 90.86          | 135.64                      | -1,411.08                               | 3,068.40      | 3,876.97                   | 3,763.73                    | 113.24                        | 34.237               |                                                                           |  |                    |  |         |
| 6,300.00                        | 6,224.06                  | 6,174.26                  | 6,174.26                  | 22.98             | 92.32          | 135.85                      | -1,411.08                               | 3,068.40      | 3,891.96                   | 3,776.87                    | 115.08                        | 33.819               |                                                                           |  |                    |  |         |
| 6,400.00                        | 6,321.89                  | 6,272.09                  | 6,272.09                  | 23.37             | 93.79          | 136.06                      | -1,411.08                               | 3,068.40      | 3,907.00                   | 3,790.07                    | 116.93                        | 33.414               |                                                                           |  |                    |  |         |
| 6,500.00                        | 6,419.72                  | 6,369.92                  | 6,369.92                  | 23.76             | 95.25          | 136.27                      | -1,411.08                               | 3,068.40      | 3,922.09                   | 3,803.32                    | 118.77                        | 33.023               |                                                                           |  |                    |  |         |
| 6,600.00                        | 6,517.56                  | 6,467.76                  | 6,467.76                  | 24.14             | 96.72          | 136.47                      | -1,411.08                               | 3,068.40      | 3,937.23                   | 3,816.62                    | 120.61                        | 32.643               |                                                                           |  |                    |  |         |
| 6,700.00                        | 6,615.39                  | 6,565.59                  | 6,565.59                  | 24.53             | 98.18          | 136.68                      | -1,411.08                               | 3,068.40      | 3,952.43                   | 3,829.97                    | 122.46                        | 32.276               |                                                                           |  |                    |  |         |
| 6,800.00                        | 6,713.22                  | 6,663.42                  | 6,663.42                  | 24.92             | 99.65          | 136.88                      | -1,411.08                               | 3,068.40      | 3,967.67                   | 3,843.37                    | 124.30                        | 31.920               |                                                                           |  |                    |  |         |
| 6,900.00                        | 6,811.05                  | 6,761.25                  | 6,761.25                  | 25.30             | 101.11         | 137.08                      | -1,411.08                               | 3,068.40      | 3,982.96                   | 3,856.82                    | 126.15                        | 31.574               |                                                                           |  |                    |  |         |
| 7,000.00                        | 6,908.89                  | 6,859.09                  | 6,859.09                  | 25.69             | 102.58         | 137.28                      | -1,411.08                               | 3,068.40      | 3,998.30                   | 3,870.31                    | 127.99                        | 31.239               |                                                                           |  |                    |  |         |
| 7,100.00                        | 7,006.72                  | 6,956.92                  | 6,956.92                  | 26.08             | 104.04         | 137.48                      | -1,411.08                               | 3,068.40      | 4,013.69                   | 3,883.86                    | 129.83                        | 30.914               |                                                                           |  |                    |  |         |
| 7,200.00                        | 7,104.55                  | 7,054.75                  | 7,054.75                  | 26.47             | 105.51         | 137.68                      | -1,411.08                               | 3,068.40      | 4,029.13                   | 3,897.45                    | 131.68                        | 30.598               |                                                                           |  |                    |  |         |
| 7,216.87                        | 7,121.05                  | 7,071.25                  | 7,071.25                  | 26.53             | 105.75         | 137.71                      | -1,411.08                               | 3,068.40      | 4,031.74                   | 3,899.75                    | 131.99                        | 30.546               |                                                                           |  |                    |  |         |
| 7,300.00                        | 7,202.57                  | 7,152.77                  | 7,152.77                  | 26.85             | 106.97         | 137.99                      | -1,411.08                               | 3,068.40      | 4,043.95                   | 3,910.42                    | 133.52                        | 30.286               |                                                                           |  |                    |  |         |
| 7,400.00                        | 7,301.06                  | 7,251.26                  | 7,251.26                  | 27.23             | 108.45         | 138.28                      | -1,411.08                               | 3,068.40      | 4,056.91                   | 3,921.53                    | 135.37                        | 29.968               |                                                                           |  |                    |  |         |
| 7,500.00                        | 7,399.97                  | 7,350.17                  | 7,350.17                  | 27.61             | 109.93         | 138.53                      | -1,411.08                               | 3,068.40      | 4,067.96                   | 3,930.73                    | 137.23                        | 29.644               |                                                                           |  |                    |  |         |
| 7,600.00                        | 7,499.23                  | 7,449.43                  | 7,449.43                  | 27.98             | 111.42         | 138.73                      | -1,411.08                               | 3,068.40      | 4,077.07                   | 3,937.99                    | 139.08                        | 29.315               |                                                                           |  |                    |  |         |
| 7,700.00                        | 7,598.77                  | 7,548.97                  | 7,548.97                  | 28.34             | 112.91         | 138.89                      | -1,411.08                               | 3,068.40      | 4,084.24                   | 3,943.31                    | 140.93                        | 28.981               |                                                                           |  |                    |  |         |
| 7,800.00                        | 7,698.53                  | 7,648.73                  | 7,648.73                  | 28.70             | 114.40         | 139.01                      | -1,411.08                               | 3,068.40      | 4,089.44                   | 3,946.66                    | 142.78                        | 28.642               |                                                                           |  |                    |  |         |
| 7,900.00                        | 7,798.44                  | 7,748.64                  | 7,748.64                  | 29.05             | 115.90         | 139.08                      | -1,411.08                               | 3,068.40      | 4,092.68                   | 3,948.05                    | 144.63                        | 28.298               |                                                                           |  |                    |  |         |
| 8,000.00                        | 7,898.42                  | 7,848.62                  | 7,848.62                  | 29.39             | 117.40         | 139.10                      | -1,411.08                               | 3,068.40      | 4,093.93                   | 3,947.47                    | 146.47                        | 27.951               |                                                                           |  |                    |  |         |
| 8,013.58                        | 7,912.00                  | 7,862.20                  | 7,862.20                  | 29.43             | 117.60         | 126.32                      | -1,411.08                               | 3,068.40      | 4,093.95                   | 3,947.23                    | 146.72                        | 27.903               |                                                                           |  |                    |  |         |
| 8,100.00                        | 7,998.42                  | 7,948.62                  | 7,948.62                  | 29.73             | 118.89         | 126.32                      | -1,411.08                               | 3,068.40      | 4,093.95                   | 3,945.64                    | 148.31                        | 27.604               |                                                                           |  |                    |  |         |
| 8,200.00                        | 8,098.42                  | 8,048.62                  | 8,048.62                  | 30.07             | 120.39         | 126.32                      | -1,411.08                               | 3,068.40      | 4,093.95                   | 3,943.81                    | 150.15                        | 27.266               |                                                                           |  |                    |  |         |
| 8,300.00                        | 8,198.42                  | 8,148.62                  | 8,148.62                  | 30.41             | 121.89         | 126.32                      | -1,411.08                               | 3,068.40      | 4,093.95                   | 3,941.97                    | 151.99                        | 26.936               |                                                                           |  |                    |  |         |
| 8,363.62                        | 8,262.04                  | 8,212.24                  | 8,212.24                  | 30.62             | 122.84         | 126.32                      | -1,411.08                               | 3,068.40      | 4,093.95                   | 3,940.80                    | 153.16                        | 26.731               |                                                                           |  |                    |  |         |
| 8,400.00                        | 8,298.40                  | 8,248.60                  | 8,248.60                  | 30.75             | 123.39         | 36.73                       | -1,411.08                               | 3,068.40      | 4,093.03                   | 3,939.20                    | 153.82                        | 26.609               |                                                                           |  |                    |  |         |
| 8,450.00                        | 8,348.10                  | 8,298.30                  | 8,298.30                  | 30.91             | 124.13         | 37.03                       | -1,411.08                               | 3,068.40      | 4,088.74                   | 3,934.02                    | 154.72                        | 26.426               |                                                                           |  |                    |  |         |
| 8,500.00                        | 8,397.14                  | 8,347.34                  | 8,347.34                  | 31.07             | 124.87         | 37.59                       | -1,411.08                               | 3,068.40      | 4,081.00                   | 3,925.40                    | 155.61                        | 26.226               |                                                                           |  |                    |  |         |
| 8,550.00                        | 8,445.15                  | 8,395.35                  | 8,395.35                  | 31.23             | 125.58         | 38.41                       | -1,411.08                               | 3,068.40      | 4,069.89                   | 3,913.42                    | 156.47                        | 26.011               |                                                                           |  |                    |  |         |
| 8,600.00                        | 8,491.77                  | 8,441.97                  | 8,441.97                  | 31.38             | 126.28         | 39.51                       | -1,411.08                               | 3,068.40      | 4,055.49                   | 3,898.19                    | 157.30                        | 25.781               |                                                                           |  |                    |  |         |
| 8,650.00                        | 8,536.65                  | 8,486.85                  | 8,486.85                  | 31.52             | 126.95         | 40.92                       | -1,411.08                               | 3,068.40      | 4,037.94                   | 3,879.84                    | 158.10                        | 25.540               |                                                                           |  |                    |  |         |
| 8,700.00                        | 8,579.43                  | 8,529.63                  | 8,529.63                  | 31.66             | 127.60         | 42.65                       | -1,411.08                               | 3,068.40      | 4,017.40                   | 3,858.54                    | 158.86                        | 25.289               |                                                                           |  |                    |  |         |
| 8,750.00                        | 8,619.80                  | 8,570.00                  | 8,570.00                  | 31.80             | 128.20         | 44.74                       | -1,411.08                               | 3,068.40      | 3,994.05                   | 3,834.48                    | 159.57                        | 25.029               |                                                                           |  |                    |  |         |
| 8,800.00                        | 8,657.44                  | 8,607.64                  | 8,607.64                  | 31.93             | 128.76         | 47.22                       | -1,411.08                               | 3,068.40      | 3,968.10                   | 3,807.86                    | 160.24                        | 24.763               |                                                                           |  |                    |  |         |
| 8,850.00                        | 8,692.08                  | 8,642.28                  | 8,642.28                  | 32.06             | 129.28         | 50.13                       | -1,411.08                               | 3,068.40      | 3,939.77                   | 3,778.92                    | 160.86                        | 24.492               |                                                                           |  |                    |  |         |
| 8,900.00                        | 8,723.44                  | 8,673.64                  | 8,673.64                  | 32.19             | 129.75         | 53.50                       | -1,411.08                               | 3,068.40      | 3,909.33                   | 3,747.91                    | 161.42                        | 24.218               |                                                                           |  |                    |  |         |
| 8,950.00                        | 8,751.29                  | 8,701.49                  | 8,701.49                  | 32.34             | 130.17         | 57.36                       | -1,411.08                               | 3,068.40      | 3,877.03                   | 3,715.09                    | 161.93                        | 23.942               |                                                                           |  |                    |  |         |
| 9,000.00                        | 8,775.42                  | 8,725.62                  | 8,725.62                  | 32.50             | 130.53         | 61.69                       | -1,411.08                               | 3,068.40      | 3,843.15                   | 3,680.76                    | 162.39                        | 23.666               |                                                                           |  |                    |  |         |
| 9,050.00                        | 8,795.64                  | 8,745.84                  | 8,745.84                  | 32.67             | 130.83         | 66.49                       | -1,411.08                               | 3,068.40      | 3,807.99                   | 3,645.19                    | 162.80                        | 23.391               |                                                                           |  |                    |  |         |
| 9,100.00                        | 8,811.80                  | 8,762.00                  | 8,762.00                  | 32.87             | 131.08         | 71.69                       | -1,411.08                               | 3,068.40      | 3,771.85                   | 3,608.69                    | 163.15                        | 23.119               |                                                                           |  |                    |  |         |
| 9,150.00                        | 8,823.77                  | 8,773.97                  | 8,773.97                  | 33.10             | 131.25         | 77.18                       | -1,411.08                               | 3,068.40      | 3,735.02                   | 3,571.57                    | 163.45                        | 22.850               |                                                                           |  |                    |  |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lonetree 14 State Com #001 - Wellbore #1 - Wellbore #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Site Error:</b> | 0.00 ft |
|------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 10-INC-ONLY                                                                    |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                      |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                           | Warning |
| Measured Depth (ft)                                                                            | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor         |         |
| 9,200.00                                                                                       | 8,831.47            | 8,781.67            | 8,781.67            | 33.34           | 131.37      | 82.83                 | -1,411.08                         | 3,068.40   | 3,697.83             | 3,534.12              | 163.71                  | 22.588                    |         |
| 9,250.00                                                                                       | 8,834.84            | 8,785.04            | 8,785.04            | 33.60           | 131.42      | 88.48                 | -1,411.08                         | 3,068.40   | 3,660.56             | 3,496.65              | 163.91                  | 22.333                    |         |
| 9,263.62                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 33.67           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,650.43             | 3,486.48              | 163.95                  | 22.265                    |         |
| 9,300.00                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 33.88           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,623.50             | 3,459.42              | 164.08                  | 22.084                    |         |
| 9,400.00                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 34.53           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,550.33             | 3,385.86              | 164.47                  | 21.586                    |         |
| 9,500.00                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 35.30           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,478.49             | 3,313.54              | 164.95                  | 21.088                    |         |
| 9,600.00                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 36.17           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,408.08             | 3,242.55              | 165.52                  | 20.590                    |         |
| 9,700.00                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 37.13           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,339.17             | 3,172.98              | 166.19                  | 20.092                    |         |
| 9,800.00                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 38.18           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,271.88             | 3,104.91              | 166.96                  | 19.597                    |         |
| 9,900.00                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 39.31           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,206.29             | 3,038.45              | 167.84                  | 19.104                    |         |
| 10,000.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 40.51           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,142.51             | 2,973.69              | 168.82                  | 18.615                    |         |
| 10,100.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 41.78           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,080.66             | 2,910.75              | 169.91                  | 18.131                    |         |
| 10,200.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 43.10           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,020.85             | 2,849.74              | 171.11                  | 17.655                    |         |
| 10,300.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 44.49           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,963.21             | 2,790.79              | 172.42                  | 17.186                    |         |
| 10,400.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 45.92           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,907.87             | 2,734.04              | 173.83                  | 16.728                    |         |
| 10,500.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 47.39           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,854.96             | 2,679.61              | 175.35                  | 16.281                    |         |
| 10,600.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 48.91           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,804.62             | 2,627.65              | 176.97                  | 15.848                    |         |
| 10,700.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 50.47           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,756.99             | 2,578.30              | 178.68                  | 15.429                    |         |
| 10,800.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 52.06           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,712.21             | 2,531.73              | 180.48                  | 15.028                    |         |
| 10,900.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 53.68           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,670.42             | 2,488.07              | 182.35                  | 14.644                    |         |
| 11,000.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 55.32           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,631.78             | 2,447.48              | 184.29                  | 14.280                    |         |
| 11,100.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 57.00           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,596.41             | 2,410.12              | 186.29                  | 13.938                    |         |
| 11,200.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 58.70           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,564.46             | 2,376.13              | 188.33                  | 13.617                    |         |
| 11,300.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 60.41           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,536.04             | 2,345.65              | 190.39                  | 13.320                    |         |
| 11,400.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 62.15           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,511.30             | 2,318.83              | 192.47                  | 13.048                    |         |
| 11,500.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 63.91           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,490.32             | 2,295.78              | 194.54                  | 12.801                    |         |
| 11,600.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 65.69           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,473.21             | 2,276.62              | 196.60                  | 12.580                    |         |
| 11,700.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 67.47           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,460.06             | 2,261.44              | 198.62                  | 12.386                    |         |
| 11,800.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 69.28           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,450.91             | 2,250.32              | 200.59                  | 12.218                    |         |
| 11,900.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 71.09           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,445.82             | 2,243.32              | 202.50                  | 12.078                    |         |
| 11,974.55                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 72.46           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,444.69             | 2,240.81              | 203.88                  | 11.991 CC                 |         |
| 12,000.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 72.92           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,444.82             | 2,240.48              | 204.34                  | 11.965 ES                 |         |
| 12,100.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 74.76           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,447.90             | 2,241.83              | 206.08                  | 11.878                    |         |
| 12,200.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 76.61           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,455.06             | 2,247.34              | 207.72                  | 11.819                    |         |
| 12,300.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 78.47           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,466.26             | 2,257.00              | 209.26                  | 11.786                    |         |
| 12,400.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 80.34           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,481.43             | 2,270.75              | 210.68                  | 11.778 SF                 |         |
| 12,500.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 82.22           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,500.52             | 2,288.53              | 211.98                  | 11.796                    |         |
| 12,600.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 84.11           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,523.43             | 2,310.26              | 213.17                  | 11.838                    |         |
| 12,700.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 86.00           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,550.05             | 2,335.82              | 214.23                  | 11.903                    |         |
| 12,800.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 87.90           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,580.28             | 2,365.11              | 215.18                  | 11.991                    |         |
| 12,900.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 89.81           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,613.99             | 2,397.99              | 216.01                  | 12.102                    |         |
| 13,000.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 91.72           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,651.05             | 2,434.32              | 216.72                  | 12.232                    |         |
| 13,100.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 93.64           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,691.31             | 2,473.97              | 217.33                  | 12.383                    |         |
| 13,200.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 95.56           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,734.63             | 2,516.79              | 217.85                  | 12.553                    |         |
| 13,300.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 97.49           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,780.88             | 2,562.62              | 218.26                  | 12.741                    |         |
| 13,400.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 99.42           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,829.91             | 2,611.32              | 218.60                  | 12.946                    |         |
| 13,500.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 101.36          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,881.58             | 2,662.73              | 218.85                  | 13.167                    |         |
| 13,600.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 103.30          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,935.74             | 2,716.71              | 219.03                  | 13.403                    |         |
| 13,700.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 105.25          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,992.27             | 2,773.12              | 219.15                  | 13.654                    |         |
| 13,800.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 107.20          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,051.03             | 2,831.82              | 219.20                  | 13.919                    |         |
| 13,900.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 109.15          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,111.89             | 2,892.68              | 219.21                  | 14.196                    |         |
| 14,000.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 111.10          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,174.73             | 2,955.57              | 219.17                  | 14.485                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lonetree 14 State Com #001 - Wellbore #1 - Wellbore #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | <b>Offset Site Error:</b> | 0.00 ft |
|------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|---------------------------|---------|
| Survey Program: 10-INC-ONLY                                                                    |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                      |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning                   |         |
| Measured Depth (ft)                                                                            | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                           |         |
| 14,100.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 113.06          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,239.45             | 3,020.36              | 219.09                  | 14.786            |                           |         |
| 14,200.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 115.03          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,305.92             | 3,086.95              | 218.97                  | 15.098            |                           |         |
| 14,300.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 116.99          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,374.05             | 3,155.23              | 218.82                  | 15.419            |                           |         |
| 14,400.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 118.96          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,443.73             | 3,225.09              | 218.64                  | 15.750            |                           |         |
| 14,500.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 120.93          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,514.88             | 3,296.43              | 218.45                  | 16.090            |                           |         |
| 14,600.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 122.90          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,587.41             | 3,369.18              | 218.23                  | 16.439            |                           |         |
| 14,700.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 124.88          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,661.23             | 3,443.23              | 218.00                  | 16.795            |                           |         |
| 14,800.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 126.86          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,736.26             | 3,518.51              | 217.75                  | 17.158            |                           |         |
| 14,900.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 128.84          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,812.45             | 3,594.95              | 217.49                  | 17.529            |                           |         |
| 15,000.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 130.82          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,889.71             | 3,672.48              | 217.23                  | 17.906            |                           |         |
| 15,100.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 132.80          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,967.99             | 3,751.03              | 216.96                  | 18.289            |                           |         |
| 15,200.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 134.79          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,047.22             | 3,830.55              | 216.68                  | 18.678            |                           |         |
| 15,300.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 136.78          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,127.36             | 3,910.96              | 216.40                  | 19.073            |                           |         |
| 15,400.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 138.76          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,208.35             | 3,992.23              | 216.11                  | 19.473            |                           |         |
| 15,500.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 140.76          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,290.14             | 4,074.31              | 215.83                  | 19.877            |                           |         |
| 15,600.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 142.75          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,372.69             | 4,157.14              | 215.55                  | 20.286            |                           |         |
| 15,700.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 144.74          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,455.95             | 4,240.68              | 215.26                  | 20.700            |                           |         |
| 15,800.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 146.74          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,539.89             | 4,324.90              | 214.98                  | 21.117            |                           |         |
| 15,900.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 148.73          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,624.46             | 4,409.76              | 214.70                  | 21.539            |                           |         |
| 16,000.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 150.73          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,709.64             | 4,495.21              | 214.43                  | 21.964            |                           |         |
| 16,100.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 152.73          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,795.40             | 4,581.24              | 214.16                  | 22.392            |                           |         |
| 16,200.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 154.73          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,881.69             | 4,667.80              | 213.89                  | 22.824            |                           |         |
| 16,300.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 156.73          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,968.50             | 4,754.88              | 213.62                  | 23.258            |                           |         |
| 16,400.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 158.74          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,055.80             | 4,842.44              | 213.36                  | 23.696            |                           |         |
| 16,500.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 160.74          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,143.56             | 4,930.45              | 213.11                  | 24.136            |                           |         |
| 16,600.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 162.74          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,231.76             | 5,018.90              | 212.85                  | 24.579            |                           |         |
| 16,700.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 164.75          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,320.37             | 5,107.76              | 212.61                  | 25.024            |                           |         |
| 16,800.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 166.76          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,409.39             | 5,197.02              | 212.37                  | 25.472            |                           |         |
| 16,900.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 168.77          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,498.78             | 5,286.65              | 212.13                  | 25.922            |                           |         |
| 17,000.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 170.77          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,588.53             | 5,376.63              | 211.90                  | 26.374            |                           |         |
| 17,100.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 172.78          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,678.62             | 5,466.95              | 211.67                  | 26.827            |                           |         |
| 17,200.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 174.79          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,769.04             | 5,557.59              | 211.45                  | 27.283            |                           |         |
| 17,300.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 176.81          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,859.77             | 5,648.53              | 211.24                  | 27.740            |                           |         |
| 17,400.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 178.82          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,950.80             | 5,739.77              | 211.03                  | 28.199            |                           |         |
| 17,500.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 180.83          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,042.11             | 5,831.29              | 210.82                  | 28.660            |                           |         |
| 17,600.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 182.84          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,133.69             | 5,923.07              | 210.62                  | 29.122            |                           |         |
| 17,700.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 184.86          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,225.53             | 6,015.11              | 210.42                  | 29.586            |                           |         |
| 17,800.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 186.87          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,317.62             | 6,107.39              | 210.23                  | 30.051            |                           |         |
| 17,900.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 188.89          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,409.95             | 6,199.90              | 210.05                  | 30.517            |                           |         |
| 18,000.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 190.91          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,502.50             | 6,292.64              | 209.87                  | 30.984            |                           |         |
| 18,100.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 192.92          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,595.27             | 6,385.58              | 209.69                  | 31.452            |                           |         |
| 18,200.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 194.94          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,688.25             | 6,478.73              | 209.52                  | 31.922            |                           |         |
| 18,300.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 196.96          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,781.43             | 6,572.08              | 209.35                  | 32.392            |                           |         |
| 18,400.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 198.98          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,874.80             | 6,665.61              | 209.19                  | 32.864            |                           |         |
| 18,500.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 201.00          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,968.36             | 6,759.32              | 209.03                  | 33.336            |                           |         |
| 18,600.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 203.02          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 7,062.09             | 6,853.21              | 208.88                  | 33.810            |                           |         |
| 18,700.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 205.04          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 7,155.99             | 6,947.26              | 208.73                  | 34.284            |                           |         |
| 18,800.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 207.06          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 7,250.05             | 7,041.47              | 208.58                  | 34.758            |                           |         |
| 18,900.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 209.08          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 7,344.27             | 7,135.83              | 208.44                  | 35.234            |                           |         |
| 19,000.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 211.10          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 7,438.64             | 7,230.34              | 208.31                  | 35.710            |                           |         |
| 19,100.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 213.12          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 7,533.16             | 7,324.99              | 208.17                  | 36.187            |                           |         |
| 19,200.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 215.15          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 7,627.82             | 7,419.77              | 208.04                  | 36.664            |                           |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b>   |                        | Sec 14-T21S-R27E - Lonetree 14 State Com #001 - Wellbore #1 - Wellbore #1 |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 0.00 ft |
|------------------------|------------------------|---------------------------------------------------------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|---------|
| Survey Program:        |                        | 10-INC-ONLY                                                               |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 0.50 ft |
| Reference              | Offset                 | Semi Major Axis                                                           |                        | Distance          |                |                             |                                         |               |                            |                             |                               |                           | Warning |
| Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Measured Depth<br>(ft)                                                    | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |         |
| 19,308.27              | 8,835.00               | 8,785.20                                                                  | 8,785.20               | 217.34            | 131.42         | 90.00                       | -1,411.08                               | 3,068.40      | 7,730.45                   | 7,522.54                    | 207.91                        | 37.182                    |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft   |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|-----------|
| Survey Program: 5-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 150.00 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning   |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |           |
| 0.00                       | 0.00                | 0.00                | 0.00                | 0.50            | 150.00      | 31.35                 | 2,234.63                          | 1,361.57   | 2,616.86             |                       |                         |                   |                    |           |
| 100.00                     | 100.00              | 77.20               | 77.20               | 0.52            | 150.00      | 31.35                 | 2,234.63                          | 1,361.57   | 2,616.76             | 2,466.24              | 150.52                  | 17.385            |                    |           |
| 200.00                     | 200.00              | 177.20              | 177.20              | 0.70            | 150.02      | 31.35                 | 2,234.63                          | 1,361.57   | 2,616.76             | 2,466.04              | 150.72                  | 17.361            |                    |           |
| 300.00                     | 300.00              | 277.20              | 277.20              | 0.99            | 150.05      | 31.35                 | 2,234.63                          | 1,361.57   | 2,616.76             | 2,465.72              | 151.04                  | 17.325            |                    |           |
| 400.00                     | 400.00              | 377.20              | 377.20              | 1.31            | 150.10      | 31.35                 | 2,234.63                          | 1,361.57   | 2,616.76             | 2,465.35              | 151.41                  | 17.283            |                    |           |
| 500.00                     | 500.00              | 477.20              | 477.20              | 1.65            | 150.16      | 31.35                 | 2,234.63                          | 1,361.57   | 2,616.76             | 2,464.95              | 151.81                  | 17.237            |                    |           |
| 600.00                     | 600.00              | 577.20              | 577.20              | 1.99            | 150.24      | 31.35                 | 2,234.63                          | 1,361.57   | 2,616.76             | 2,464.53              | 152.23                  | 17.190 CC, ES     |                    |           |
| 700.00                     | 700.00              | 563.00              | 562.89              | 2.34            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,619.26             | 2,466.83              | 152.42                  | 17.184 SF         |                    |           |
| 800.00                     | 800.00              | 563.00              | 562.89              | 2.69            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,625.52             | 2,473.11              | 152.41                  | 17.226            |                    |           |
| 900.00                     | 900.00              | 563.00              | 562.89              | 3.04            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,635.57             | 2,483.38              | 152.19                  | 17.317            |                    |           |
| 1,000.00                   | 1,000.00            | 563.00              | 562.89              | 3.40            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,649.36             | 2,497.60              | 151.76                  | 17.458            |                    |           |
| 1,100.00                   | 1,100.00            | 563.00              | 562.89              | 3.75            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,666.82             | 2,515.70              | 151.12                  | 17.647            |                    |           |
| 1,200.00                   | 1,200.00            | 563.00              | 562.89              | 4.11            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,687.90             | 2,537.60              | 150.30                  | 17.884            |                    |           |
| 1,300.00                   | 1,300.00            | 563.00              | 562.89              | 4.46            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,712.50             | 2,563.21              | 149.29                  | 18.169            |                    |           |
| 1,400.00                   | 1,400.00            | 563.00              | 562.89              | 4.82            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,740.54             | 2,592.41              | 148.12                  | 18.502            |                    |           |
| 1,500.00                   | 1,500.00            | 563.00              | 562.89              | 5.18            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,771.89             | 2,625.09              | 146.80                  | 18.882            |                    |           |
| 1,600.00                   | 1,600.00            | 563.00              | 562.89              | 5.53            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,806.47             | 2,661.12              | 145.34                  | 19.309            |                    |           |
| 1,700.00                   | 1,700.00            | 563.00              | 562.89              | 5.89            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,844.14             | 2,700.37              | 143.77                  | 19.783            |                    |           |
| 1,800.00                   | 1,800.00            | 563.00              | 562.89              | 6.25            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,884.79             | 2,742.70              | 142.09                  | 20.303            |                    |           |
| 1,900.00                   | 1,900.00            | 563.00              | 562.89              | 6.61            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,928.28             | 2,787.96              | 140.32                  | 20.868            |                    |           |
| 2,000.00                   | 2,000.00            | 563.00              | 562.89              | 6.96            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,974.51             | 2,836.03              | 138.48                  | 21.479            |                    |           |
| 2,100.00                   | 2,099.99            | 563.00              | 562.89              | 7.32            | 150.23      | 43.75                 | 2,234.63                          | 1,361.57   | 3,022.79             | 2,886.22              | 136.58                  | 22.132            |                    |           |
| 2,200.00                   | 2,199.96            | 563.00              | 562.89              | 7.68            | 150.23      | 43.36                 | 2,234.63                          | 1,361.57   | 3,072.49             | 2,937.89              | 134.61                  | 22.826            |                    |           |
| 2,300.00                   | 2,299.86            | 563.00              | 562.89              | 8.04            | 150.23      | 42.95                 | 2,234.63                          | 1,361.57   | 3,123.52             | 2,990.94              | 132.58                  | 23.559            |                    |           |
| 2,400.00                   | 2,399.68            | 563.00              | 562.89              | 8.39            | 150.23      | 42.53                 | 2,234.63                          | 1,361.57   | 3,175.81             | 3,045.29              | 130.52                  | 24.333            |                    |           |
| 2,500.00                   | 2,499.37            | 563.00              | 562.89              | 8.75            | 150.23      | 42.11                 | 2,234.63                          | 1,361.57   | 3,229.27             | 3,100.85              | 128.41                  | 25.147            |                    |           |
| 2,600.00                   | 2,598.90            | 563.00              | 562.89              | 9.11            | 150.23      | 41.67                 | 2,234.63                          | 1,361.57   | 3,283.83             | 3,157.55              | 126.28                  | 26.004            |                    |           |
| 2,700.00                   | 2,698.26            | 563.00              | 562.89              | 9.46            | 150.23      | 41.23                 | 2,234.63                          | 1,361.57   | 3,339.43             | 3,215.30              | 124.13                  | 26.902            |                    |           |
| 2,800.00                   | 2,797.40            | 563.00              | 562.89              | 9.82            | 150.23      | 40.78                 | 2,234.63                          | 1,361.57   | 3,396.00             | 3,274.03              | 121.97                  | 27.844            |                    |           |
| 2,900.00                   | 2,896.30            | 563.00              | 562.89              | 10.18           | 150.23      | 40.32                 | 2,234.63                          | 1,361.57   | 3,453.46             | 3,333.67              | 119.79                  | 28.829            |                    |           |
| 3,000.00                   | 2,994.93            | 563.00              | 562.89              | 10.54           | 150.23      | 39.86                 | 2,234.63                          | 1,361.57   | 3,511.77             | 3,394.16              | 117.61                  | 29.859            |                    |           |
| 3,100.00                   | 3,093.26            | 563.00              | 562.89              | 10.90           | 150.23      | 39.40                 | 2,234.63                          | 1,361.57   | 3,570.86             | 3,455.42              | 115.43                  | 30.934            |                    |           |
| 3,195.07                   | 3,186.42            | 563.00              | 562.89              | 11.24           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 3,627.70             | 3,514.33              | 113.37                  | 31.999            |                    |           |
| 3,200.00                   | 3,191.25            | 563.00              | 562.89              | 11.26           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 3,630.67             | 3,517.41              | 113.26                  | 32.056            |                    |           |
| 3,300.00                   | 3,289.08            | 563.00              | 562.89              | 11.62           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 3,691.75             | 3,580.64              | 111.11                  | 33.226            |                    |           |
| 3,400.00                   | 3,386.91            | 563.00              | 562.89              | 11.98           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 3,754.49             | 3,645.50              | 108.99                  | 34.448            |                    |           |
| 3,500.00                   | 3,484.74            | 563.00              | 562.89              | 12.35           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 3,818.83             | 3,711.92              | 106.91                  | 35.721            |                    |           |
| 3,600.00                   | 3,582.58            | 563.00              | 562.89              | 12.72           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 3,884.67             | 3,779.81              | 104.86                  | 37.047            |                    |           |
| 3,700.00                   | 3,680.41            | 563.00              | 562.89              | 13.09           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 3,951.95             | 3,849.10              | 102.85                  | 38.424            |                    |           |
| 3,800.00                   | 3,778.24            | 563.00              | 562.89              | 13.46           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,020.59             | 3,919.70              | 100.88                  | 39.854            |                    |           |
| 3,900.00                   | 3,876.08            | 563.00              | 562.89              | 13.83           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,090.52             | 3,991.56              | 98.96                   | 41.334            |                    |           |
| 4,000.00                   | 3,973.91            | 563.00              | 562.89              | 14.21           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,161.68             | 4,064.59              | 97.09                   | 42.866            |                    |           |
| 4,100.00                   | 4,071.74            | 563.00              | 562.89              | 14.58           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,234.00             | 4,138.75              | 95.25                   | 44.450            |                    |           |
| 4,200.00                   | 4,169.57            | 563.00              | 562.89              | 14.96           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,307.44             | 4,213.97              | 93.47                   | 46.084            |                    |           |
| 4,300.00                   | 4,267.41            | 563.00              | 562.89              | 15.33           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,381.92             | 4,290.19              | 91.73                   | 47.768            |                    |           |
| 4,400.00                   | 4,365.24            | 563.00              | 562.89              | 15.71           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,457.41             | 4,367.36              | 90.04                   | 49.503            |                    |           |
| 4,500.00                   | 4,463.07            | 563.00              | 562.89              | 16.09           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,533.84             | 4,445.44              | 88.40                   | 51.287            |                    |           |
| 4,600.00                   | 4,560.90            | 563.00              | 562.89              | 16.47           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,611.17             | 4,524.37              | 86.81                   | 53.121            |                    |           |
| 4,700.00                   | 4,658.74            | 563.00              | 562.89              | 16.85           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,689.36             | 4,604.11              | 85.26                   | 55.003            |                    |           |
| 4,800.00                   | 4,756.57            | 563.00              | 562.89              | 17.23           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,768.37             | 4,684.62              | 83.75                   | 56.933            |                    |           |
| 4,900.00                   | 4,854.40            | 563.00              | 562.89              | 17.61           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,848.15             | 4,765.86              | 82.30                   | 58.910            |                    |           |
| 5,000.00                   | 4,952.23            | 563.00              | 562.89              | 17.99           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,928.67             | 4,847.79              | 80.89                   | 60.934            |                    |           |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft   |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|-----------|
| Survey Program: 5-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 150.00 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |           |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |           |
| 5,100.00                   | 5,050.07            | 563.00              | 562.89              | 18.37           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 5,009.89             | 4,930.38              | 79.52                   | 63.003            |                    |           |
| 5,200.00                   | 5,147.90            | 563.00              | 562.89              | 18.75           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 5,091.78             | 5,013.59              | 78.19                   | 65.117            |                    |           |
| 5,300.00                   | 5,245.73            | 563.00              | 562.89              | 19.14           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 5,174.31             | 5,097.40              | 76.91                   | 67.275            |                    |           |
| 5,400.00                   | 5,343.56            | 563.00              | 562.89              | 19.52           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 5,257.44             | 5,181.77              | 75.67                   | 69.476            |                    |           |
| 5,500.00                   | 5,441.40            | 563.00              | 562.89              | 19.90           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 5,341.15             | 5,266.68              | 74.47                   | 71.718            |                    |           |
| 5,600.00                   | 5,539.23            | 563.00              | 562.89              | 20.29           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 5,425.42             | 5,352.10              | 73.32                   | 74.001            |                    |           |
| 5,700.00                   | 5,637.06            | 563.00              | 562.89              | 20.67           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 5,510.21             | 5,438.01              | 72.20                   | 76.323            |                    |           |
| 5,800.00                   | 5,734.90            | 563.00              | 562.89              | 21.05           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 5,595.50             | 5,524.38              | 71.11                   | 78.683            |                    |           |
| 5,900.00                   | 5,832.73            | 563.00              | 562.89              | 21.44           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 5,681.27             | 5,611.20              | 70.07                   | 81.080            |                    |           |
| 6,000.00                   | 5,930.56            | 563.00              | 562.89              | 21.83           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 5,767.50             | 5,698.44              | 69.06                   | 83.511            |                    |           |
| 6,100.00                   | 6,028.39            | 563.00              | 562.89              | 22.21           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 5,854.17             | 5,786.08              | 68.09                   | 85.977            |                    |           |
| 6,200.00                   | 6,126.23            | 563.00              | 562.89              | 22.60           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 5,941.25             | 5,874.10              | 67.15                   | 88.474            |                    |           |
| 6,300.00                   | 6,224.06            | 563.00              | 562.89              | 22.98           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 6,028.74             | 5,962.49              | 66.25                   | 91.002            |                    |           |
| 6,400.00                   | 6,321.89            | 563.00              | 562.89              | 23.37           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 6,116.61             | 6,051.23              | 65.38                   | 93.558            |                    |           |
| 6,500.00                   | 6,419.72            | 563.00              | 562.89              | 23.76           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 6,204.85             | 6,140.31              | 64.54                   | 96.141            |                    |           |
| 6,600.00                   | 6,517.56            | 563.00              | 562.89              | 24.14           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 6,293.44             | 6,229.71              | 63.73                   | 98.749            |                    |           |
| 6,700.00                   | 6,615.39            | 563.00              | 562.89              | 24.53           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 6,382.37             | 6,319.41              | 62.95                   | 101.381           |                    |           |
| 6,800.00                   | 6,713.22            | 563.00              | 562.89              | 24.92           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 6,471.62             | 6,409.41              | 62.21                   | 104.034           |                    |           |
| 6,900.00                   | 6,811.05            | 563.00              | 562.89              | 25.30           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 6,561.18             | 6,499.69              | 61.49                   | 106.706           |                    |           |
| 7,000.00                   | 6,908.89            | 563.00              | 562.89              | 25.69           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 6,651.04             | 6,590.24              | 60.80                   | 109.396           |                    |           |
| 7,100.00                   | 7,006.72            | 563.00              | 562.89              | 26.08           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 6,741.18             | 6,681.05              | 60.14                   | 112.100           |                    |           |
| 7,200.00                   | 7,104.55            | 563.00              | 562.89              | 26.47           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 6,831.60             | 6,772.10              | 59.50                   | 114.818           |                    |           |
| 7,216.87                   | 7,121.05            | 563.00              | 562.89              | 26.53           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 6,846.88             | 6,787.48              | 59.39                   | 115.278           |                    |           |
| 7,300.00                   | 7,202.57            | 563.00              | 562.89              | 26.85           | 150.23      | 40.71                 | 2,234.63                          | 1,361.57   | 6,922.57             | 6,863.67              | 58.90                   | 117.537           |                    |           |
| 7,400.00                   | 7,301.06            | 563.00              | 562.89              | 27.23           | 150.23      | 43.06                 | 2,234.63                          | 1,361.57   | 7,014.56             | 6,956.23              | 58.34                   | 120.239           |                    |           |
| 7,500.00                   | 7,399.97            | 563.00              | 562.89              | 27.61           | 150.23      | 45.70                 | 2,234.63                          | 1,361.57   | 7,107.49             | 7,049.67              | 57.82                   | 122.921           |                    |           |
| 7,600.00                   | 7,499.23            | 563.00              | 562.89              | 27.98           | 150.23      | 48.67                 | 2,234.63                          | 1,361.57   | 7,201.26             | 7,143.91              | 57.35                   | 125.577           |                    |           |
| 7,700.00                   | 7,598.77            | 563.00              | 562.89              | 28.34           | 150.23      | 52.00                 | 2,234.63                          | 1,361.57   | 7,295.76             | 7,238.86              | 56.91                   | 128.204           |                    |           |
| 7,800.00                   | 7,698.53            | 563.00              | 562.89              | 28.70           | 150.23      | 55.75                 | 2,234.63                          | 1,361.57   | 7,390.92             | 7,334.41              | 56.51                   | 130.796           |                    |           |
| 7,900.00                   | 7,798.44            | 563.00              | 562.89              | 29.05           | 150.23      | 59.95                 | 2,234.63                          | 1,361.57   | 7,486.63             | 7,430.49              | 56.14                   | 133.347           |                    |           |
| 8,000.00                   | 7,898.42            | 563.00              | 562.89              | 29.39           | 150.23      | 64.62                 | 2,234.63                          | 1,361.57   | 7,582.82             | 7,527.00              | 55.82                   | 135.853           |                    |           |
| 8,013.58                   | 7,912.00            | 563.00              | 562.89              | 29.43           | 150.23      | 52.51                 | 2,234.63                          | 1,361.57   | 7,595.91             | 7,540.14              | 55.77                   | 136.189           |                    |           |
| 8,100.00                   | 7,998.42            | 563.00              | 562.89              | 29.73           | 150.23      | 52.51                 | 2,234.63                          | 1,361.57   | 7,679.30             | 7,623.79              | 55.52                   | 138.325           |                    |           |
| 8,200.00                   | 8,098.42            | 563.00              | 562.89              | 30.07           | 150.23      | 52.51                 | 2,234.63                          | 1,361.57   | 7,775.87             | 7,720.64              | 55.23                   | 140.785           |                    |           |
| 8,300.00                   | 8,198.42            | 563.00              | 562.89              | 30.41           | 150.23      | 52.51                 | 2,234.63                          | 1,361.57   | 7,872.53             | 7,817.57              | 54.96                   | 143.232           |                    |           |
| 8,363.62                   | 8,262.04            | 563.00              | 562.89              | 30.62           | 150.23      | 52.51                 | 2,234.63                          | 1,361.57   | 7,934.07             | 7,879.27              | 54.80                   | 144.782           |                    |           |
| 8,400.00                   | 8,298.40            | 563.00              | 562.89              | 30.75           | 150.23      | -30.16                | 2,234.63                          | 1,361.57   | 7,969.02             | 7,914.33              | 54.69                   | 145.710           |                    |           |
| 8,450.00                   | 8,348.10            | 563.00              | 562.89              | 30.91           | 150.23      | -23.85                | 2,234.63                          | 1,361.57   | 8,016.06             | 7,961.57              | 54.49                   | 147.113           |                    |           |
| 8,500.00                   | 8,397.14            | 563.00              | 562.89              | 31.07           | 150.23      | -19.71                | 2,234.63                          | 1,361.57   | 8,061.66             | 8,007.43              | 54.23                   | 148.651           |                    |           |
| 8,550.00                   | 8,445.15            | 563.00              | 562.89              | 31.23           | 150.23      | -16.85                | 2,234.63                          | 1,361.57   | 8,105.50             | 8,051.57              | 53.92                   | 150.314           |                    |           |
| 8,600.00                   | 8,491.77            | 563.00              | 562.89              | 31.38           | 150.23      | -14.78                | 2,234.63                          | 1,361.57   | 8,147.26             | 8,093.69              | 53.57                   | 152.092           |                    |           |
| 8,650.00                   | 8,536.65            | 563.00              | 562.89              | 31.52           | 150.23      | -13.23                | 2,234.63                          | 1,361.57   | 8,186.67             | 8,133.50              | 53.17                   | 153.975           |                    |           |
| 8,700.00                   | 8,579.43            | 563.00              | 562.89              | 31.66           | 150.23      | -12.04                | 2,234.63                          | 1,361.57   | 8,223.46             | 8,170.73              | 52.73                   | 155.949           |                    |           |
| 8,750.00                   | 8,619.80            | 563.00              | 562.89              | 31.80           | 150.23      | -11.11                | 2,234.63                          | 1,361.57   | 8,257.40             | 8,205.14              | 52.26                   | 158.002           |                    |           |
| 8,800.00                   | 8,657.44            | 563.00              | 562.89              | 31.93           | 150.23      | -10.38                | 2,234.63                          | 1,361.57   | 8,288.25             | 8,236.49              | 51.76                   | 160.119           |                    |           |
| 8,850.00                   | 8,692.08            | 563.00              | 562.89              | 32.06           | 150.23      | -9.80                 | 2,234.63                          | 1,361.57   | 8,315.82             | 8,264.58              | 51.24                   | 162.281           |                    |           |
| 8,900.00                   | 8,723.44            | 563.00              | 562.89              | 32.19           | 150.23      | -9.34                 | 2,234.63                          | 1,361.57   | 8,339.94             | 8,289.23              | 50.71                   | 164.470           |                    |           |
| 8,950.00                   | 8,751.29            | 563.00              | 562.89              | 32.34           | 150.23      | -8.98                 | 2,234.63                          | 1,361.57   | 8,360.44             | 8,310.28              | 50.16                   | 166.663           |                    |           |
| 9,000.00                   | 8,775.42            | 563.00              | 562.89              | 32.50           | 150.23      | -8.71                 | 2,234.63                          | 1,361.57   | 8,377.21             | 8,327.59              | 49.62                   | 168.838           |                    |           |
| 9,050.00                   | 8,795.64            | 563.00              | 562.89              | 32.67           | 150.23      | -8.51                 | 2,234.63                          | 1,361.57   | 8,390.13             | 8,341.05              | 49.07                   | 170.969           |                    |           |
| 9,100.00                   | 8,811.80            | 563.00              | 562.89              | 32.87           | 150.23      | -8.37                 | 2,234.63                          | 1,361.57   | 8,399.12             | 8,350.58              | 48.54                   | 173.032           |                    |           |
| 9,150.00                   | 8,823.77            | 563.00              | 562.89              | 33.10           | 150.23      | -8.30                 | 2,234.63                          | 1,361.57   | 8,404.14             | 8,356.12              | 48.02                   | 175.000           |                    |           |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft   |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|-----------|
| Survey Program: 5-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 150.00 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |           |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |           |
| 9,200.00                   | 8,831.47            | 563.00              | 562.89              | 33.34           | 150.23      | -8.29                 | 2,234.63                          | 1,361.57   | 8,405.14             | 8,357.62              | 47.53                   | 176.847           |                    |           |
| 9,250.00                   | 8,834.84            | 563.00              | 562.89              | 33.60           | 150.23      | -8.33                 | 2,234.63                          | 1,361.57   | 8,402.13             | 8,355.07              | 47.06                   | 178.548           |                    |           |
| 9,263.62                   | 8,835.00            | 563.00              | 562.89              | 33.67           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,400.62             | 8,353.68              | 46.94                   | 178.979           |                    |           |
| 9,300.00                   | 8,835.00            | 563.00              | 562.89              | 33.88           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,396.25             | 8,349.63              | 46.62                   | 180.114           |                    |           |
| 9,400.00                   | 8,835.00            | 563.00              | 562.89              | 34.53           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,385.05             | 8,339.25              | 45.81                   | 183.045           |                    |           |
| 9,500.00                   | 8,835.00            | 563.00              | 562.89              | 35.30           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,375.04             | 8,329.92              | 45.11                   | 185.638           |                    |           |
| 9,600.00                   | 8,835.00            | 563.00              | 562.89              | 36.17           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,366.20             | 8,321.66              | 44.54                   | 187.824           |                    |           |
| 9,700.00                   | 8,835.00            | 563.00              | 562.89              | 37.13           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,358.56             | 8,314.45              | 44.10                   | 189.531           |                    |           |
| 9,800.00                   | 8,835.00            | 563.00              | 562.89              | 38.18           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,352.10             | 8,308.30              | 43.80                   | 190.693           |                    |           |
| 9,900.00                   | 8,835.00            | 563.00              | 562.89              | 39.31           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,346.84             | 8,303.19              | 43.64                   | 191.249           |                    |           |
| 10,000.00                  | 8,835.00            | 563.00              | 562.89              | 40.51           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,342.77             | 8,299.12              | 43.64                   | 191.155           |                    |           |
| 10,100.00                  | 8,835.00            | 563.00              | 562.89              | 41.78           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,339.90             | 8,296.09              | 43.81                   | 190.383           |                    |           |
| 10,200.00                  | 8,835.00            | 563.00              | 562.89              | 43.10           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,338.22             | 8,294.09              | 44.13                   | 188.931           |                    |           |
| 10,289.48                  | 8,835.00            | 563.00              | 562.89              | 44.34           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,337.74             | 8,293.17              | 44.57                   | 187.071           |                    |           |
| 10,300.00                  | 8,835.00            | 563.00              | 562.89              | 44.49           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,337.75             | 8,293.12              | 44.63                   | 186.823           |                    |           |
| 10,400.00                  | 8,835.00            | 563.00              | 562.89              | 45.92           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,338.48             | 8,293.18              | 45.29                   | 184.108           |                    |           |
| 10,500.00                  | 8,835.00            | 563.00              | 562.89              | 47.39           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,340.40             | 8,294.28              | 46.12                   | 180.856           |                    |           |
| 10,600.00                  | 8,835.00            | 563.00              | 562.89              | 48.91           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,343.52             | 8,296.43              | 47.10                   | 177.155           |                    |           |
| 10,700.00                  | 8,835.00            | 563.00              | 562.89              | 50.47           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,347.84             | 8,299.62              | 48.23                   | 173.101           |                    |           |
| 10,800.00                  | 8,835.00            | 563.00              | 562.89              | 52.06           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,353.36             | 8,303.87              | 49.49                   | 168.790           |                    |           |
| 10,900.00                  | 8,835.00            | 563.00              | 562.89              | 53.68           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,360.07             | 8,309.19              | 50.88                   | 164.316           |                    |           |
| 11,000.00                  | 8,835.00            | 563.00              | 562.89              | 55.32           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,367.96             | 8,315.58              | 52.38                   | 159.760           |                    |           |
| 11,100.00                  | 8,835.00            | 563.00              | 562.89              | 57.00           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,377.05             | 8,323.07              | 53.98                   | 155.193           |                    |           |
| 11,200.00                  | 8,835.00            | 563.00              | 562.89              | 58.70           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,387.31             | 8,331.65              | 55.67                   | 150.673           |                    |           |
| 11,300.00                  | 8,835.00            | 563.00              | 562.89              | 60.41           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,398.76             | 8,341.33              | 57.43                   | 146.245           |                    |           |
| 11,400.00                  | 8,835.00            | 563.00              | 562.89              | 62.15           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,411.37             | 8,352.12              | 59.26                   | 141.942           |                    |           |
| 11,500.00                  | 8,835.00            | 563.00              | 562.89              | 63.91           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,425.16             | 8,364.02              | 61.15                   | 137.789           |                    |           |
| 11,600.00                  | 8,835.00            | 563.00              | 562.89              | 65.69           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,440.11             | 8,377.03              | 63.08                   | 133.802           |                    |           |
| 11,700.00                  | 8,835.00            | 563.00              | 562.89              | 67.47           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,456.21             | 8,391.16              | 65.05                   | 129.989           |                    |           |
| 11,800.00                  | 8,835.00            | 563.00              | 562.89              | 69.28           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,473.47             | 8,406.41              | 67.06                   | 126.356           |                    |           |
| 11,900.00                  | 8,835.00            | 563.00              | 562.89              | 71.09           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,491.86             | 8,422.77              | 69.09                   | 122.903           |                    |           |
| 12,000.00                  | 8,835.00            | 563.00              | 562.89              | 72.92           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,511.40             | 8,440.25              | 71.15                   | 119.627           |                    |           |
| 12,100.00                  | 8,835.00            | 563.00              | 562.89              | 74.76           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,532.05             | 8,458.83              | 73.22                   | 116.524           |                    |           |
| 12,200.00                  | 8,835.00            | 563.00              | 562.89              | 76.61           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,553.83             | 8,478.53              | 75.31                   | 113.588           |                    |           |
| 12,300.00                  | 8,835.00            | 563.00              | 562.89              | 78.47           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,576.72             | 8,499.32              | 77.40                   | 110.813           |                    |           |
| 12,400.00                  | 8,835.00            | 563.00              | 562.89              | 80.34           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,600.71             | 8,521.22              | 79.49                   | 108.192           |                    |           |
| 12,500.00                  | 8,835.00            | 563.00              | 562.89              | 82.22           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,625.80             | 8,544.20              | 81.59                   | 105.717           |                    |           |
| 12,600.00                  | 8,835.00            | 563.00              | 562.89              | 84.11           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,651.96             | 8,568.27              | 83.69                   | 103.380           |                    |           |
| 12,700.00                  | 8,835.00            | 563.00              | 562.89              | 86.00           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,679.20             | 8,593.42              | 85.78                   | 101.175           |                    |           |
| 12,800.00                  | 8,835.00            | 563.00              | 562.89              | 87.90           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,707.51             | 8,619.64              | 87.87                   | 99.094            |                    |           |
| 12,900.00                  | 8,835.00            | 563.00              | 562.89              | 89.81           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,736.86             | 8,646.91              | 89.95                   | 97.130            |                    |           |
| 13,000.00                  | 8,835.00            | 563.00              | 562.89              | 91.72           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,767.26             | 8,675.24              | 92.02                   | 95.276            |                    |           |
| 13,100.00                  | 8,835.00            | 563.00              | 562.89              | 93.64           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,798.69             | 8,704.62              | 94.08                   | 93.526            |                    |           |
| 13,200.00                  | 8,835.00            | 563.00              | 562.89              | 95.56           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,831.14             | 8,735.02              | 96.12                   | 91.875            |                    |           |
| 13,300.00                  | 8,835.00            | 563.00              | 562.89              | 97.49           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,864.60             | 8,766.45              | 98.15                   | 90.316            |                    |           |
| 13,400.00                  | 8,835.00            | 563.00              | 562.89              | 99.42           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,899.06             | 8,798.90              | 100.17                  | 88.844            |                    |           |
| 13,500.00                  | 8,835.00            | 563.00              | 562.89              | 101.36          | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,934.51             | 8,832.34              | 102.16                  | 87.454            |                    |           |
| 13,600.00                  | 8,835.00            | 563.00              | 562.89              | 103.30          | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,970.93             | 8,866.78              | 104.14                  | 86.141            |                    |           |
| 13,700.00                  | 8,835.00            | 563.00              | 562.89              | 105.25          | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 9,008.31             | 8,902.21              | 106.10                  | 84.902            |                    |           |
| 13,800.00                  | 8,835.00            | 563.00              | 562.89              | 107.20          | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 9,046.64             | 8,938.60              | 108.04                  | 83.732            |                    |           |
| 13,900.00                  | 8,835.00            | 563.00              | 562.89              | 109.15          | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 9,085.91             | 8,975.95              | 109.96                  | 82.626            |                    |           |
| 14,000.00                  | 8,835.00            | 563.00              | 562.89              | 111.10          | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 9,126.11             | 9,014.25              | 111.86                  | 81.582            |                    |           |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Magnolia State 2 (P&A) - Wellbore #1 - Wellbore #1 |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 0.00 ft   |
|--------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|-----------|
| Survey Program: 5-INC-ONLY                                                                 |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 150.00 ft |
| Reference                                                                                  |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                           | Warning   |
| Measured Depth<br>(ft)                                                                     | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |           |
| 14,100.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 113.06            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,167.23                   | 9,053.48                    | 113.74                        | 80.596                    |           |
| 14,200.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 115.03            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,209.24                   | 9,093.64                    | 115.60                        | 79.665                    |           |
| 14,300.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 116.99            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,252.15                   | 9,134.72                    | 117.43                        | 78.786                    |           |
| 14,400.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 118.96            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,295.93                   | 9,176.69                    | 119.25                        | 77.956                    |           |
| 14,500.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 120.93            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,340.58                   | 9,219.55                    | 121.03                        | 77.173                    |           |
| 14,600.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 122.90            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,386.08                   | 9,263.29                    | 122.80                        | 76.435                    |           |
| 14,700.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 124.88            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,432.43                   | 9,307.89                    | 124.54                        | 75.738                    |           |
| 14,800.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 126.86            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,479.60                   | 9,353.34                    | 126.26                        | 75.081                    |           |
| 14,900.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 128.84            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,527.59                   | 9,399.63                    | 127.95                        | 74.462                    |           |
| 15,000.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 130.82            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,576.38                   | 9,446.75                    | 129.62                        | 73.878                    |           |
| 15,100.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 132.80            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,625.96                   | 9,494.69                    | 131.27                        | 73.329                    |           |
| 15,200.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 134.79            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,676.32                   | 9,543.43                    | 132.89                        | 72.813                    |           |
| 15,300.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 136.78            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,727.45                   | 9,592.96                    | 134.49                        | 72.328                    |           |
| 15,400.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 138.76            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,779.34                   | 9,643.27                    | 136.07                        | 71.872                    |           |
| 15,500.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 140.76            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,831.96                   | 9,694.35                    | 137.62                        | 71.445                    |           |
| 15,600.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 142.75            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,885.32                   | 9,746.18                    | 139.14                        | 71.044                    |           |
| 15,700.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 144.74            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,939.40                   | 9,798.76                    | 140.65                        | 70.669                    |           |
| 15,800.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 146.74            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,994.19                   | 9,852.06                    | 142.13                        | 70.319                    |           |



## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

Reference Depths are relative to RKB @ 3269.80ft

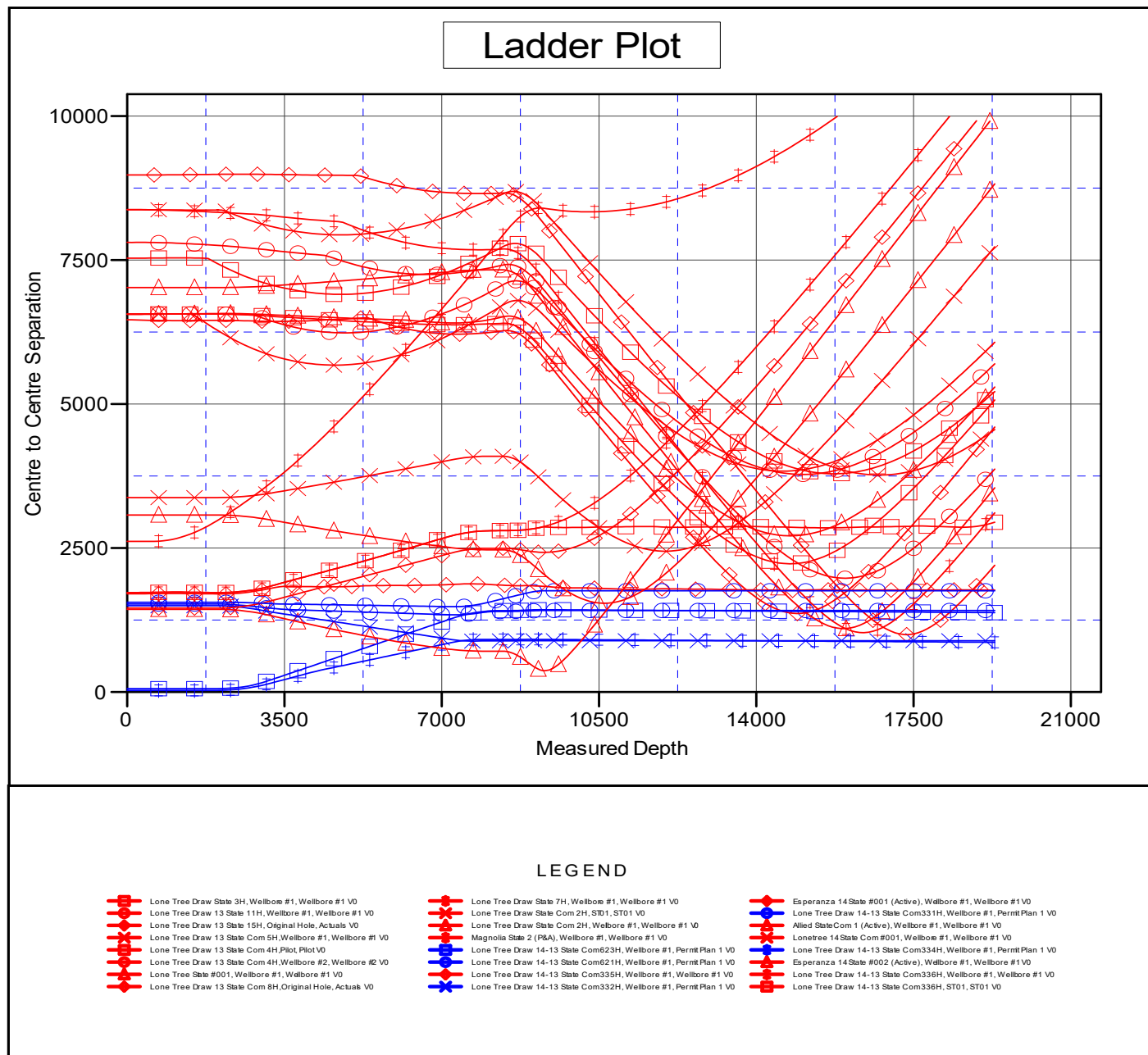
Offset Depths are relative to Offset Datum

Central Meridian is -104.333334

Coordinates are relative to: Lone Tree Draw 14-13 State Com 333H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.09°



CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

Reference Depths are relative to RKB @ 3269.80ft

Offset Depths are relative to Offset Datum

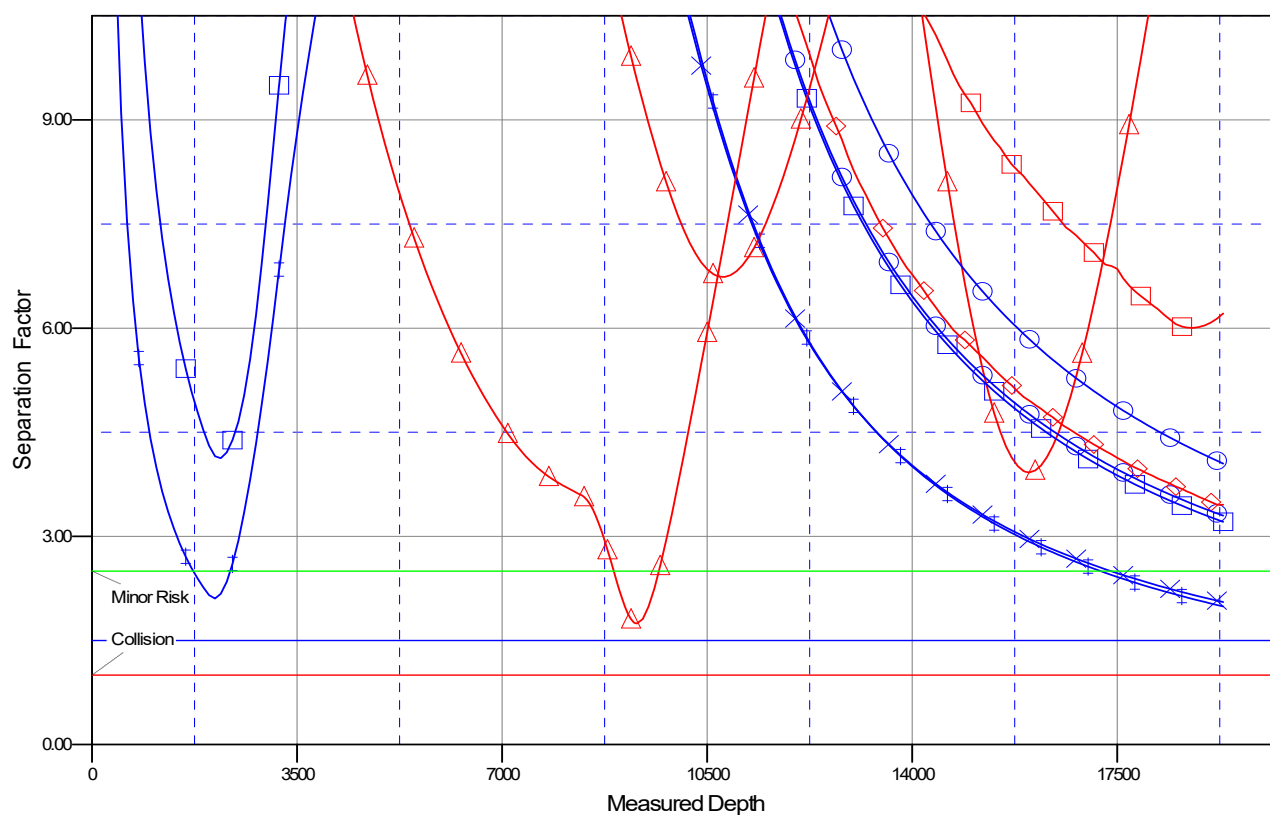
Central Meridian is -104.333334

Coordinates are relative to: Lone Tree Draw 14-13 State Com 333H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.09°

### Separation Factor Plot



#### LEGEND

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Lone Tree Draw State 3H, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 13 State 11H, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 13 State 15H, Original Hole, Actual V0</li> <li>Lone Tree Draw 13 State Com 5H, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 13 State Com 4H, Plot, Plot V0</li> <li>Lone Tree Draw 13 State Com 4H, Wellbore #2, Wellbore #2 V0</li> <li>Lone Tree State #001, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 13 State Com 8H, Original Hole, Actual V0</li> </ul> | <ul style="list-style-type: none"> <li>Lone Tree Draw State 7H, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw State Com 2H, ST01, ST01 V0</li> <li>Lone Tree Draw State Com 2H, Wellbore #1, Wellbore #1 V0</li> <li>Magnolia State 2 (P&amp;A), Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 14-13 State Com 623H, Wellbore #1, Permit Plan 1 V0</li> <li>Lone Tree Draw 14-13 State Com 621H, Wellbore #1, Permit Plan 1 V0</li> <li>Lone Tree Draw 14-13 State Com 335H, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 14-13 State Com 332H, Wellbore #1, Permit Plan 1 V0</li> </ul> | <ul style="list-style-type: none"> <li>Esperanza 14 State #001 (Active), Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 14-13 State Com 331H, Wellbore #1, Permit Plan 1 V0</li> <li>Allied State Com 1 (Active), Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree 14 State Com #001, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 14-13 State Com 334H, Wellbore #1, Permit Plan 1 V0</li> <li>Esperanza 14 State #002 (Active), Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 14-13 State Com 336H, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 14-13 State Com 336H, ST01, ST01 V0</li> </ul> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# **WCDSC Permian NM**

**Eddy County (NAD 83 NM Eastern)**

**Sec 14-T21S-R27E**

**Lone Tree Draw 14-13 State Com 333H**

**Wellbore #1**

**Permit Plan 1**

## **Anticollision Report**

**07 October, 2019**

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

|                                     |                                                                     |                       |                     |
|-------------------------------------|---------------------------------------------------------------------|-----------------------|---------------------|
| <b>Reference</b>                    | Permit Plan 1                                                       |                       |                     |
| <b>Filter type:</b>                 | NO GLOBAL FILTER: Using user defined selection & filtering criteria |                       |                     |
| <b>Interpolation Method:</b>        | Stations                                                            | <b>Error Model:</b>   | ISCWSA              |
| <b>Depth Range:</b>                 | Unlimited                                                           | <b>Scan Method:</b>   | Closest Approach 3D |
| <b>Results Limited by:</b>          | Maximum center-center distance of 10,000.00 ft                      | <b>Error Surface:</b> | Pedal Curve         |
| <b>Warning Levels Evaluated at:</b> | 2.00 Sigma                                                          | <b>Casing Method:</b> | Not applied         |

|                            |                |                             |                  |                    |
|----------------------------|----------------|-----------------------------|------------------|--------------------|
| <b>Survey Tool Program</b> | <b>Date</b>    | 10/4/2019                   |                  |                    |
| <b>From (ft)</b>           | <b>To (ft)</b> | <b>Survey (Wellbore)</b>    | <b>Tool Name</b> | <b>Description</b> |
| 0.00                       | 19,308.27      | Permit Plan 1 (Wellbore #1) | MWD+IFR1         | OWSG MWD + IFR1    |

|                                                        |                                      |                                   |                                      |                                       |                          |                |
|--------------------------------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|---------------------------------------|--------------------------|----------------|
| <b>Summary</b>                                         |                                      |                                   |                                      |                                       |                          |                |
| <b>Site Name</b>                                       | <b>Reference Measured Depth (ft)</b> | <b>Offset Measured Depth (ft)</b> | <b>Distance Between Centres (ft)</b> | <b>Distance Between Ellipses (ft)</b> | <b>Separation Factor</b> | <b>Warning</b> |
| <b>Offset Well - Wellbore - Design</b>                 |                                      |                                   |                                      |                                       |                          |                |
| Sec 13-T21S-R27E                                       |                                      |                                   |                                      |                                       |                          |                |
| Lone Tree Draw 13 State 11H - Wellbore #1 - Wellbore # | 15,975.33                            | 8,463.95                          | 1,977.03                             | 1,899.27                              | 25.423                   | CC             |
| Lone Tree Draw 13 State 11H - Wellbore #1 - Wellbore # | 16,000.00                            | 8,465.04                          | 1,977.18                             | 1,899.19                              | 25.351                   | ES             |
| Lone Tree Draw 13 State 11H - Wellbore #1 - Wellbore # | 19,100.00                            | 19,100.00                         | 3,694.56                             | 3,488.19                              | 17.902                   | SF             |
| Lone Tree Draw 13 State 15H - Original Hole - Actuals  | 14,914.32                            | 14,914.32                         | 1,364.10                             | 1,257.65                              | 12.815                   | CC, ES         |
| Lone Tree Draw 13 State 15H - Original Hole - Actuals  | 15,000.00                            | 15,000.00                         | 1,366.79                             | 1,258.60                              | 12.634                   | SF             |
| Lone Tree Draw 13 State Com 4H - Pilot - Pilot         | 14,751.24                            | 7,876.00                          | 2,227.48                             | 2,082.89                              | 15.405                   | CC             |
| Lone Tree Draw 13 State Com 4H - Pilot - Pilot         | 14,800.00                            | 7,876.00                          | 2,228.01                             | 2,082.53                              | 15.315                   | ES             |
| Lone Tree Draw 13 State Com 4H - Pilot - Pilot         | 15,100.00                            | 7,876.00                          | 2,254.62                             | 2,104.80                              | 15.049                   | SF             |
| Lone Tree Draw 13 State Com 4H - Wellbore #2 - Wellbo  | 12,600.00                            | 12,600.00                         | 4,496.64                             | 4,383.15                              | 39.621                   | SF             |
| Lone Tree Draw 13 State Com 4H - Wellbore #2 - Wellbo  | 15,040.39                            | 6,780.00                          | 3,778.28                             | 3,708.78                              | 54.369                   | CC             |
| Lone Tree Draw 13 State Com 4H - Wellbore #2 - Wellbo  | 15,100.00                            | 6,780.00                          | 3,778.75                             | 3,708.77                              | 54.000                   | ES             |
| Lone Tree Draw 13 State Com 5H - Wellbore #1 - Wellbo  | 16,740.01                            | 7,077.00                          | 3,767.73                             | 3,683.80                              | 44.890                   | CC             |
| Lone Tree Draw 13 State Com 5H - Wellbore #1 - Wellbo  | 16,800.00                            | 7,079.22                          | 3,768.21                             | 3,683.76                              | 44.622                   | ES             |
| Lone Tree Draw 13 State Com 5H - Wellbore #1 - Wellbo  | 18,000.00                            | 7,119.38                          | 3,972.52                             | 3,878.08                              | 42.061                   | SF             |
| Lone Tree Draw 13 State Com 8H - Original Hole - Actua | 17,346.61                            | 9,626.12                          | 997.32                               | 910.17                                | 11.445                   | CC, ES         |
| Lone Tree Draw 13 State Com 8H - Original Hole - Actua | 17,600.00                            | 9,626.96                          | 1,029.00                             | 937.62                                | 11.260                   | SF             |
| Lone Tree Draw State 3H - Wellbore #1 - Wellbore #1    | 15,723.69                            | 6,887.46                          | 3,789.77                             | 3,714.43                              | 50.301                   | CC, ES         |
| Lone Tree Draw State 3H - Wellbore #1 - Wellbore #1    | 18,500.00                            | 18,500.00                         | 4,697.87                             | 4,492.52                              | 22.877                   | SF             |
| Lone Tree Draw State 7H - Wellbore #1 - Wellbore #1    | 16,373.02                            | 9,889.06                          | 1,031.64                             | 947.12                                | 12.206                   | CC, ES         |
| Lone Tree Draw State 7H - Wellbore #1 - Wellbore #1    | 16,500.00                            | 9,889.90                          | 1,039.43                             | 953.39                                | 12.081                   | SF             |
| Lone Tree Draw State Com 2H - ST01 - ST01              | 14,592.75                            | 6,719.00                          | 3,835.98                             | 3,770.09                              | 58.215                   | CC             |
| Lone Tree Draw State Com 2H - ST01 - ST01              | 14,600.00                            | 6,719.00                          | 3,835.99                             | 3,770.04                              | 58.164                   | ES             |
| Lone Tree Draw State Com 2H - ST01 - ST01              | 16,100.00                            | 6,661.90                          | 4,120.61                             | 4,042.51                              | 52.762                   | SF             |
| Lone Tree Draw State Com 2H - Wellbore #1 - Wellbore   | 14,760.69                            | 6,978.42                          | 2,712.38                             | 2,590.13                              | 22.188                   | CC             |
| Lone Tree Draw State Com 2H - Wellbore #1 - Wellbore   | 14,800.00                            | 6,978.42                          | 2,712.66                             | 2,589.79                              | 22.078                   | ES             |
| Lone Tree Draw State Com 2H - Wellbore #1 - Wellbore   | 15,300.00                            | 6,978.42                          | 2,765.47                             | 2,636.26                              | 21.402                   | SF             |
| Lone Tree State #001 - Wellbore #1 - Wellbore #1       | 15,937.60                            | 8,753.20                          | 1,101.53                             | 821.12                                | 3.928                    | Alert, CC, ES  |
| Lone Tree State #001 - Wellbore #1 - Wellbore #1       | 16,000.00                            | 8,753.20                          | 1,103.30                             | 821.91                                | 3.921                    | Alert, SF      |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Summary                                                 |                               |                            |                               |                                |                   |                    |
|---------------------------------------------------------|-------------------------------|----------------------------|-------------------------------|--------------------------------|-------------------|--------------------|
| Site Name                                               | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning            |
| Offset Well - Wellbore - Design                         |                               |                            |                               |                                |                   |                    |
| Sec 14-T21S-R27E                                        |                               |                            |                               |                                |                   |                    |
| Allied State Com 1 (Active) - Wellbore #1 - Wellbore #1 | 10,620.27                     | 8,815.20                   | 1,541.35                      | 1,313.69                       | 6.770             | CC, ES             |
| Allied State Com 1 (Active) - Wellbore #1 - Wellbore #1 | 10,800.00                     | 8,815.20                   | 1,551.80                      | 1,321.49                       | 6.738             | SF                 |
| Esperanza 14 State #001 (Active) - Wellbore #1 - Wellbo | 2,000.00                      | 1,989.20                   | 1,457.98                      | 1,421.37                       | 39.826            | CC                 |
| Esperanza 14 State #001 (Active) - Wellbore #1 - Wellbo | 2,100.00                      | 2,089.19                   | 1,458.85                      | 1,420.38                       | 37.928            | ES                 |
| Esperanza 14 State #001 (Active) - Wellbore #1 - Wellbo | 9,600.00                      | 8,824.20                   | 2,446.62                      | 2,278.48                       | 14.551            | SF                 |
| Esperanza 14 State #002 (Active) - Wellbore #1 - Wellbo | 9,295.36                      | 8,821.20                   | 370.33                        | 157.96                         | 1.744             | Minor Risk, CC, ES |
| Esperanza 14 State #002 (Active) - Wellbore #1 - Wellbo | 9,300.00                      | 8,821.20                   | 370.36                        | 157.96                         | 1.744             | Minor Risk, SF     |
| Lone Tree Draw 14-13 State Com 331H - Wellbore #1 - P   | 7,265.16                      | 6,980.06                   | 1,482.62                      | 1,430.79                       | 28.605            | CC                 |
| Lone Tree Draw 14-13 State Com 331H - Wellbore #1 - P   | 19,308.27                     | 19,322.16                  | 1,759.45                      | 1,324.93                       | 4.049             | Alert, ES, SF      |
| Lone Tree Draw 14-13 State Com 332H - Wellbore #1 - P   | 7,685.06                      | 7,540.96                   | 884.48                        | 829.48                         | 16.081            | CC                 |
| Lone Tree Draw 14-13 State Com 332H - Wellbore #1 - P   | 19,308.27                     | 19,281.48                  | 890.92                        | 457.17                         | 2.054             | Minor Risk, ES, SF |
| Lone Tree Draw 14-13 State Com 334H - Wellbore #1 - P   | 2,000.00                      | 2,000.30                   | 29.97                         | 16.04                          | 2.152             | Minor Risk, CC, ES |
| Lone Tree Draw 14-13 State Com 334H - Wellbore #1 - P   | 19,308.27                     | 19,300.82                  | 863.71                        | 430.01                         | 1.991             | Minor Risk, SF     |
| Lone Tree Draw 14-13 State Com 335H - Wellbore #1 - W   | 2,104.93                      | 2,150.71                   | 1,703.67                      | 1,689.49                       | 120.110           | CC                 |
| Lone Tree Draw 14-13 State Com 335H - Wellbore #1 - W   | 19,221.83                     | 19,158.00                  | 1,768.30                      | 1,256.71                       | 3.456             | Alert, ES          |
| Lone Tree Draw 14-13 State Com 335H - Wellbore #1 - W   | 19,308.27                     | 19,158.00                  | 1,770.41                      | 1,258.04                       | 3.455             | Alert, SF          |
| Lone Tree Draw 14-13 State Com 336H - ST01 - ST01       | 2,044.39                      | 2,071.95                   | 1,725.46                      | 1,711.88                       | 127.110           | CC                 |
| Lone Tree Draw 14-13 State Com 336H - ST01 - ST01       | 2,100.00                      | 2,126.07                   | 1,725.74                      | 1,711.78                       | 123.592           | ES                 |
| Lone Tree Draw 14-13 State Com 336H - ST01 - ST01       | 18,800.00                     | 19,172.00                  | 2,868.68                      | 2,390.90                       | 6.004             | SF                 |
| Lone Tree Draw 14-13 State Com 336H - Wellbore #1 - W   | 2,044.39                      | 2,071.95                   | 1,725.46                      | 1,711.88                       | 127.110           | CC                 |
| Lone Tree Draw 14-13 State Com 336H - Wellbore #1 - W   | 2,100.00                      | 2,126.07                   | 1,725.74                      | 1,711.78                       | 123.592           | ES                 |
| Lone Tree Draw 14-13 State Com 336H - Wellbore #1 - W   | 9,900.00                      | 8,726.24                   | 3,057.73                      | 2,989.74                       | 44.975            | SF                 |
| Lone Tree Draw 14-13 State Com 621H - Wellbore #1 - P   | 7,315.04                      | 7,058.96                   | 1,340.01                      | 1,287.84                       | 25.687            | CC                 |
| Lone Tree Draw 14-13 State Com 621H - Wellbore #1 - P   | 19,308.27                     | 19,506.25                  | 1,415.97                      | 986.68                         | 3.298             | Alert, ES, SF      |
| Lone Tree Draw 14-13 State Com 623H - Wellbore #1 - P   | 2,000.00                      | 2,000.90                   | 59.98                         | 46.05                          | 4.306             | Alert, CC, ES      |
| Lone Tree Draw 14-13 State Com 623H - Wellbore #1 - P   | 19,308.27                     | 19,456.84                  | 1,379.82                      | 949.96                         | 3.210             | Alert, SF          |
| Lonetree 14 State Com #001 - Wellbore #1 - Wellbore #1  | 11,974.55                     | 8,785.20                   | 2,444.69                      | 2,240.81                       | 11.991            | CC                 |
| Lonetree 14 State Com #001 - Wellbore #1 - Wellbore #1  | 12,000.00                     | 8,785.20                   | 2,444.82                      | 2,240.48                       | 11.965            | ES                 |
| Lonetree 14 State Com #001 - Wellbore #1 - Wellbore #1  | 12,400.00                     | 8,785.20                   | 2,481.43                      | 2,270.75                       | 11.778            | SF                 |
| Magnolia State 2 (P&A) - Wellbore #1 - Wellbore #1      | 600.00                        | 577.20                     | 2,616.76                      | 2,464.53                       | 17.190            | CC, ES             |
| Magnolia State 2 (P&A) - Wellbore #1 - Wellbore #1      | 700.00                        | 563.00                     | 2,619.26                      | 2,466.83                       | 17.184            | SF                 |

| Offset Design   |                |                |                |                 |        |                   |                        |            |                 |                  |                    |                   | Sec 13-T21S-R27E - Lone Tree Draw 13 State 11H - Wellbore #1 - Wellbore #1 |         | Offset Site Error: |  | 5.00 ft |  |
|-----------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|--------------------|-------------------|----------------------------------------------------------------------------|---------|--------------------|--|---------|--|
| Survey Program: |                |                |                |                 |        |                   |                        |            |                 |                  |                    |                   | 111-GYRO-NS-CT, 6243-MWD+HDGM                                              |         | Offset Well Error: |  | 0.50 ft |  |
| Reference       |                | Offset         |                | Semi Major Axis |        |                   | Distance               |            |                 |                  |                    |                   |                                                                            | Warning |                    |  |         |  |
| Measured Depth  | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre |            | Between Centres | Between Ellipses | Minimum Separation | Separation Factor |                                                                            |         |                    |  |         |  |
| Depth (ft)      | Depth (ft)     | Depth (ft)     | Depth (ft)     | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft) | (ft)            | (ft)             | (ft)               |                   |                                                                            |         |                    |  |         |  |
| 0.00            | 0.00           | 0.00           | 0.00           | 0.50            | 5.02   | 66.55             | 3,106.55               | 7,162.72   | 7,807.60        |                  |                    |                   |                                                                            |         |                    |  |         |  |
| 100.00          | 100.00         | 28.07          | 28.07          | 0.52            | 5.03   | 66.55             | 3,106.55               | 7,162.75   | 7,807.42        | 7,801.88         | 5.54               | 1,408.558         |                                                                            |         |                    |  |         |  |
| 200.00          | 200.00         | 94.59          | 94.59          | 0.70            | 5.03   | 66.55             | 3,106.54               | 7,163.04   | 7,807.82        | 7,802.09         | 5.73               | 1,362.925         |                                                                            |         |                    |  |         |  |
| 300.00          | 300.00         | 221.49         | 221.49         | 0.99            | 5.05   | 66.56             | 3,106.52               | 7,163.64   | 7,808.24        | 7,802.20         | 6.04               | 1,292.530         |                                                                            |         |                    |  |         |  |
| 400.00          | 400.00         | 282.21         | 282.20         | 1.31            | 5.08   | 66.56             | 3,106.15               | 7,164.14   | 7,808.76        | 7,802.37         | 6.39               | 1,222.034         |                                                                            |         |                    |  |         |  |
| 500.00          | 500.00         | 601.63         | 601.53         | 1.65            | 5.37   | 66.61             | 3,099.19               | 7,164.14   | 7,807.38        | 7,800.37         | 7.01               | 1,113.571         |                                                                            |         |                    |  |         |  |
| 600.00          | 600.00         | 670.37         | 670.25         | 1.99            | 5.46   | 66.62             | 3,097.57               | 7,163.51   | 7,805.59        | 7,798.15         | 7.45               | 1,048.386         |                                                                            |         |                    |  |         |  |
| 700.00          | 700.00         | 792.57         | 792.41         | 2.34            | 5.64   | 66.63             | 3,094.70               | 7,162.37   | 7,803.80        | 7,795.83         | 7.97               | 978.559           |                                                                            |         |                    |  |         |  |
| 800.00          | 800.00         | 888.48         | 888.29         | 2.69            | 5.80   | 66.64             | 3,092.55               | 7,161.33   | 7,801.91        | 7,793.43         | 8.49               | 919.359           |                                                                            |         |                    |  |         |  |
| 900.00          | 900.00         | 994.05         | 993.83         | 3.04            | 6.00   | 66.65             | 3,090.39               | 7,160.07   | 7,800.01        | 7,790.97         | 9.03               | 863.589           |                                                                            |         |                    |  |         |  |
| 1,000.00        | 1,000.00       | 1,135.37       | 1,135.11       | 3.40            | 6.29   | 66.67             | 3,087.56               | 7,158.04   | 7,797.94        | 7,788.27         | 9.67               | 806.535           |                                                                            |         |                    |  |         |  |
| 1,100.00        | 1,100.00       | 1,304.96       | 1,304.61       | 3.75            | 6.67   | 66.68             | 3,083.54               | 7,154.29   | 7,794.93        | 7,784.54         | 10.39              | 749.932           |                                                                            |         |                    |  |         |  |
| 1,200.00        | 1,200.00       | 1,453.16       | 1,452.71       | 4.11            | 7.03   | 66.69             | 3,080.72               | 7,149.55   | 7,791.24        | 7,780.14         | 11.10              | 702.085           |                                                                            |         |                    |  |         |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design      Sec 13-T21S-R27E - Lone Tree Draw 13 State 11H - Wellbore #1 - Wellbore #1 |                |                |                |                 |        |                   |                              |              |                 |                  |                    |                   | Offset Site Error:      5.00 ft |         |
|-----------------------------------------------------------------------------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------------|--------------|-----------------|------------------|--------------------|-------------------|---------------------------------|---------|
| Survey Program:      111-GYRO-NS-CT, 6243-MWD+HDGM                                            |                |                |                |                 |        |                   |                              |              |                 |                  |                    |                   | Offset Well Error:      0.50 ft |         |
| Reference                                                                                     |                | Offset         |                | Semi Major Axis |        |                   | Distance                     |              |                 |                  |                    |                   |                                 | Warning |
| Measured Depth                                                                                | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre +N/-S | Centre +E/-W | Between Centres | Between Ellipses | Minimum Separation | Separation Factor |                                 |         |
| (ft)                                                                                          | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | (ft)                         | (ft)         | (ft)            | (ft)             | (ft)               |                   |                                 |         |
| 1,300.00                                                                                      | 1,300.00       | 1,559.66       | 1,559.11       | 4.46            | 7.30   | 66.70             | 3,078.18                     | 7,145.97     | 7,787.20        | 7,775.49         | 11.72              | 664.617           |                                 |         |
| 1,400.00                                                                                      | 1,400.00       | 1,653.29       | 1,652.66       | 4.82            | 7.55   | 66.70             | 3,075.99                     | 7,142.76     | 7,783.13        | 7,770.82         | 12.31              | 632.101           |                                 |         |
| 1,500.00                                                                                      | 1,500.00       | 1,732.99       | 1,732.30       | 5.18            | 7.77   | 66.71             | 3,074.29                     | 7,140.17     | 7,779.29        | 7,766.41         | 12.88              | 603.998           |                                 |         |
| 1,600.00                                                                                      | 1,600.00       | 1,828.18       | 1,827.42       | 5.53            | 8.03   | 66.71             | 3,072.22                     | 7,137.21     | 7,775.58        | 7,762.09         | 13.49              | 576.298           |                                 |         |
| 1,700.00                                                                                      | 1,700.00       | 1,955.61       | 1,954.76       | 5.89            | 8.39   | 66.72             | 3,069.21                     | 7,133.47     | 7,772.01        | 7,757.81         | 14.20              | 547.343           |                                 |         |
| 1,800.00                                                                                      | 1,800.00       | 2,140.39       | 2,139.31       | 6.25            | 8.95   | 66.75             | 3,062.57                     | 7,126.85     | 7,767.18        | 7,752.10         | 15.08              | 515.068           |                                 |         |
| 1,900.00                                                                                      | 1,900.00       | 2,251.33       | 2,250.07       | 6.61            | 9.29   | 66.76             | 3,058.16                     | 7,122.41     | 7,761.93        | 7,746.16         | 15.76              | 492.456           |                                 |         |
| 2,000.00                                                                                      | 2,000.00       | 2,352.43       | 2,351.01       | 6.96            | 9.61   | 66.78             | 3,054.29                     | 7,118.30     | 7,756.68        | 7,740.26         | 16.42              | 472.409           |                                 |         |
| 2,100.00                                                                                      | 2,099.99       | 2,470.88       | 2,469.27       | 7.32            | 9.99   | 79.63             | 3,049.90                     | 7,113.27     | 7,751.16        | 7,734.02         | 17.13              | 452.456           |                                 |         |
| 2,200.00                                                                                      | 2,199.96       | 2,558.19       | 2,556.44       | 7.68            | 10.28  | 79.72             | 3,046.81                     | 7,109.43     | 7,745.25        | 7,727.49         | 17.75              | 436.251           |                                 |         |
| 2,300.00                                                                                      | 2,299.86       | 2,634.61       | 2,632.74       | 8.04            | 10.53  | 79.81             | 3,043.76                     | 7,106.40     | 7,739.26        | 7,720.91         | 18.35              | 421.820           |                                 |         |
| 2,400.00                                                                                      | 2,399.68       | 2,764.61       | 2,762.54       | 8.39            | 10.95  | 79.96             | 3,038.39                     | 7,101.43     | 7,733.08        | 7,713.97         | 19.11              | 404.762           |                                 |         |
| 2,500.00                                                                                      | 2,499.37       | 2,876.96       | 2,874.69       | 8.75            | 11.33  | 80.10             | 3,034.13                     | 7,096.46     | 7,726.14        | 7,706.33         | 19.81              | 389.984           |                                 |         |
| 2,600.00                                                                                      | 2,598.90       | 2,961.15       | 2,958.74       | 9.11            | 11.61  | 80.24             | 3,031.10                     | 7,092.70     | 7,718.96        | 7,698.53         | 20.43              | 377.755           |                                 |         |
| 2,700.00                                                                                      | 2,698.26       | 3,040.53       | 3,037.99       | 9.46            | 11.88  | 80.39             | 3,028.07                     | 7,089.43     | 7,711.73        | 7,690.69         | 21.04              | 366.466           |                                 |         |
| 2,800.00                                                                                      | 2,797.40       | 3,145.58       | 3,142.89       | 9.82            | 12.24  | 80.58             | 3,024.17                     | 7,085.16     | 7,704.33        | 7,682.59         | 21.73              | 354.468           |                                 |         |
| 2,900.00                                                                                      | 2,896.30       | 3,250.35       | 3,247.50       | 10.18           | 12.59  | 80.78             | 3,020.74                     | 7,080.58     | 7,696.56        | 7,674.14         | 22.43              | 343.184           |                                 |         |
| 3,000.00                                                                                      | 2,994.93       | 3,341.90       | 3,338.92       | 10.54           | 12.91  | 80.98             | 3,017.68                     | 7,076.65     | 7,688.60        | 7,665.52         | 23.08              | 333.119           |                                 |         |
| 3,100.00                                                                                      | 3,093.26       | 3,449.71       | 3,446.56       | 10.90           | 13.28  | 81.22             | 3,014.19                     | 7,071.89     | 7,680.33        | 7,656.54         | 23.79              | 322.867           |                                 |         |
| 3,195.07                                                                                      | 3,186.42       | 3,538.48       | 3,535.20       | 11.24           | 13.58  | 81.44             | 3,011.54                     | 7,067.87     | 7,672.27        | 7,647.85         | 24.42              | 314.185           |                                 |         |
| 3,200.00                                                                                      | 3,191.25       | 3,543.28       | 3,540.00       | 11.26           | 13.60  | 81.45             | 3,011.40                     | 7,067.65     | 7,671.85        | 7,647.39         | 24.45              | 313.737           |                                 |         |
| 3,300.00                                                                                      | 3,289.08       | 3,638.80       | 3,635.37       | 11.62           | 13.93  | 81.60             | 3,008.63                     | 7,063.31     | 7,663.33        | 7,638.20         | 25.13              | 304.981           |                                 |         |
| 3,400.00                                                                                      | 3,386.91       | 3,728.96       | 3,725.42       | 11.98           | 14.24  | 81.74             | 3,006.29                     | 7,059.17     | 7,654.92        | 7,629.14         | 25.79              | 296.849           |                                 |         |
| 3,500.00                                                                                      | 3,484.74       | 3,816.32       | 3,812.66       | 12.35           | 14.54  | 81.88             | 3,004.08                     | 7,055.25     | 7,646.70        | 7,620.26         | 26.44              | 289.200           |                                 |         |
| 3,600.00                                                                                      | 3,582.58       | 3,908.71       | 3,904.93       | 12.72           | 14.86  | 82.03             | 3,002.10                     | 7,051.06     | 7,638.63        | 7,611.52         | 27.11              | 281.739           |                                 |         |
| 3,700.00                                                                                      | 3,680.41       | 4,000.13       | 3,996.24       | 13.09           | 15.18  | 82.17             | 3,000.25                     | 7,046.93     | 7,630.68        | 7,602.90         | 27.78              | 274.652           |                                 |         |
| 3,800.00                                                                                      | 3,778.24       | 4,089.31       | 4,085.31       | 13.46           | 15.48  | 82.31             | 2,998.25                     | 7,043.07     | 7,622.88        | 7,594.43         | 28.45              | 267.946           |                                 |         |
| 3,900.00                                                                                      | 3,876.08       | 4,168.30       | 4,164.21       | 13.83           | 15.76  | 82.43             | 2,996.88                     | 7,039.65     | 7,615.31        | 7,586.23         | 29.08              | 261.836           |                                 |         |
| 4,000.00                                                                                      | 3,973.91       | 4,238.91       | 4,234.76       | 14.21           | 15.99  | 82.54             | 2,996.44                     | 7,036.52     | 7,608.08        | 7,578.39         | 29.69              | 256.225           |                                 |         |
| 4,100.00                                                                                      | 4,071.74       | 4,302.16       | 4,297.94       | 14.58           | 16.20  | 82.63             | 2,996.72                     | 7,033.71     | 7,601.28        | 7,571.01         | 30.28              | 251.040           |                                 |         |
| 4,200.00                                                                                      | 4,169.57       | 4,366.98       | 4,362.70       | 14.96           | 16.42  | 82.71             | 2,997.63                     | 7,030.98     | 7,595.05        | 7,564.17         | 30.87              | 246.023           |                                 |         |
| 4,300.00                                                                                      | 4,267.41       | 4,508.38       | 4,503.95       | 15.33           | 16.88  | 82.90             | 3,000.17                     | 7,024.90     | 7,589.00        | 7,557.29         | 31.71              | 239.308           |                                 |         |
| 4,400.00                                                                                      | 4,365.24       | 4,603.54       | 4,598.94       | 15.71           | 17.19  | 83.02             | 3,002.34                     | 7,019.92     | 7,582.23        | 7,549.83         | 32.41              | 233.974           |                                 |         |
| 4,500.00                                                                                      | 4,463.07       | 4,702.32       | 4,692.40       | 16.09           | 18.91  | 102.47            | 882.92                       | 7,068.63     | 7,559.97        | 7,507.02         | 52.95              | 142.776           |                                 |         |
| 4,600.00                                                                                      | 4,560.90       | 4,869.39       | 4,792.61       | 16.47           | 38.80  | 102.40            | 891.81                       | 7,067.95     | 7,532.68        | 7,479.31         | 53.37              | 141.142           |                                 |         |
| 4,700.00                                                                                      | 4,658.74       | 4,864.21       | 4,792.87       | 16.85           | 38.68  | 102.33            | 900.96                       | 7,067.25     | 7,506.60        | 7,452.82         | 53.78              | 139.572           |                                 |         |
| 4,800.00                                                                                      | 4,756.57       | 4,874.74       | 4,793.16       | 17.23           | 38.57  | 102.26            | 910.40                       | 7,066.54     | 7,481.73        | 7,427.54         | 54.19              | 138.066           |                                 |         |
| 4,900.00                                                                                      | 4,854.40       | 4,843.00       | 4,794.41       | 17.61           | 38.18  | 102.01            | 942.03                       | 7,064.23     | 7,458.17        | 7,403.85         | 54.32              | 137.295           |                                 |         |
| 5,000.00                                                                                      | 4,952.23       | 4,843.00       | 4,794.41       | 17.99           | 38.18  | 102.01            | 942.03                       | 7,064.23     | 7,435.72        | 7,380.88         | 54.84              | 135.601           |                                 |         |
| 5,100.00                                                                                      | 5,050.07       | 4,843.00       | 4,794.41       | 18.37           | 38.18  | 102.01            | 942.03                       | 7,064.23     | 7,414.54        | 7,359.19         | 55.34              | 133.970           |                                 |         |
| 5,200.00                                                                                      | 5,147.90       | 4,843.00       | 4,794.41       | 18.75           | 38.18  | 102.01            | 942.03                       | 7,064.23     | 7,394.66        | 7,338.81         | 55.85              | 132.403           |                                 |         |
| 5,300.00                                                                                      | 5,245.73       | 4,843.00       | 4,794.41       | 19.14           | 38.18  | 102.01            | 942.03                       | 7,064.23     | 7,376.07        | 7,319.72         | 56.35              | 130.898           |                                 |         |
| 5,400.00                                                                                      | 5,343.56       | 4,815.67       | 4,795.61       | 19.52           | 37.85  | 101.81            | 969.27                       | 7,062.37     | 7,358.67        | 7,302.15         | 56.52              | 130.201           |                                 |         |
| 5,500.00                                                                                      | 5,441.40       | 4,806.22       | 4,796.01       | 19.90           | 37.73  | 101.73            | 978.69                       | 7,061.76     | 7,342.61        | 7,285.72         | 56.89              | 129.058           |                                 |         |
| 5,600.00                                                                                      | 5,539.23       | 4,806.85       | 4,796.40       | 20.29           | 37.62  | 101.66            | 988.04                       | 7,061.19     | 7,327.86        | 7,270.59         | 57.26              | 127.965           |                                 |         |
| 5,700.00                                                                                      | 5,637.06       | 4,857.54       | 4,796.78       | 20.67           | 37.51  | 101.59            | 997.32                       | 7,060.64     | 7,314.40        | 7,256.77         | 57.63              | 126.921           |                                 |         |
| 5,800.00                                                                                      | 5,734.90       | 4,878.31       | 4,797.15       | 21.05           | 37.40  | 101.52            | 1,006.53                     | 7,060.11     | 7,302.27        | 7,244.28         | 57.99              | 125.925           |                                 |         |
| 5,900.00                                                                                      | 5,832.73       | 4,849.00       | 4,798.26       | 21.44           | 37.04  | 101.30            | 1,035.78                     | 7,058.58     | 7,291.52        | 7,233.42         | 58.10              | 125.498           |                                 |         |
| 6,000.00                                                                                      | 5,930.56       | 4,800.00       | 4,798.21       | 21.83           | 22.52  | 101.31            | 1,034.08                     | 7,058.67     | 7,281.98        | 7,252.07         | 29.91              | 243.478           |                                 |         |
| 6,100.00                                                                                      | 6,028.39       | 4,861.65       | 4,797.80       | 22.21           | 37.19  | 101.39            | 1,023.15                     | 7,059.19     | 7,273.79        | 7,214.64         | 59.15              | 122.962           |                                 |         |
| 6,200.00                                                                                      | 6,126.23       | 4,805.59       | 4,799.80       | 22.60           | 36.53  | 100.96            | 1,079.11                     | 7,056.39     | 7,266.93        | 7,207.99         | 58.94              | 123.302           |                                 |         |
| 6,300.00                                                                                      | 6,224.06       | 4,452.77       | 4,801.53       | 22.98           | 35.91  | 100.56            | 1,131.82                     | 7,053.54     | 7,261.26        | 7,202.51         | 58.75              | 123.601           |                                 |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 111-GYRO-NS-CT, 6243-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 6,400.00                                      | 6,321.89            | 8,432.15            | 6,802.13            | 23.37           | 35.67       | 100.40                | 1,152.40                          | 7,052.40   | 7,256.84             | 7,197.91              | 58.93                   | 123.135           |                    |         |
| 6,500.00                                      | 6,419.72            | 8,412.36            | 6,802.60            | 23.76           | 35.44       | 100.25                | 1,172.15                          | 7,051.32   | 7,253.74             | 7,194.61              | 59.12                   | 122.690           |                    |         |
| 6,600.00                                      | 6,517.56            | 8,393.35            | 6,802.96            | 24.14           | 35.22       | 100.10                | 1,191.13                          | 7,050.29   | 7,251.95             | 7,192.64              | 59.31                   | 122.269           |                    |         |
| 6,685.07                                      | 6,600.78            | 8,377.77            | 6,803.20            | 24.47           | 35.04       | 99.98                 | 1,206.70                          | 7,049.46   | 7,251.47             | 7,192.00              | 59.47                   | 121.930           |                    |         |
| 6,700.00                                      | 6,615.39            | 8,375.08            | 6,803.23            | 24.53           | 35.01       | 99.96                 | 1,209.38                          | 7,049.32   | 7,251.49             | 7,191.99              | 59.50                   | 121.872           |                    |         |
| 6,800.00                                      | 6,713.22            | 8,359.00            | 6,803.40            | 24.92           | 34.82       | 99.83                 | 1,225.43                          | 7,048.47   | 7,252.35             | 7,192.64              | 59.71                   | 121.466           |                    |         |
| 6,900.00                                      | 6,811.05            | 8,359.00            | 6,803.40            | 25.30           | 34.82       | 99.83                 | 1,225.43                          | 7,048.47   | 7,254.57             | 7,194.48              | 60.09                   | 120.727           |                    |         |
| 7,000.00                                      | 6,908.89            | 8,359.00            | 6,803.40            | 25.69           | 34.82       | 99.83                 | 1,225.43                          | 7,048.47   | 7,258.16             | 7,197.70              | 60.47                   | 120.038           |                    |         |
| 7,100.00                                      | 7,006.72            | 8,359.00            | 6,803.40            | 26.08           | 34.82       | 99.83                 | 1,225.43                          | 7,048.47   | 7,263.13             | 7,202.30              | 60.83                   | 119.398           |                    |         |
| 7,200.00                                      | 7,104.55            | 8,359.00            | 6,803.40            | 26.47           | 34.82       | 99.83                 | 1,225.43                          | 7,048.47   | 7,269.48             | 7,208.29              | 61.19                   | 118.806           |                    |         |
| 7,216.87                                      | 7,121.05            | 8,359.00            | 6,803.40            | 26.53           | 34.82       | 99.83                 | 1,225.43                          | 7,048.47   | 7,270.68             | 7,209.43              | 61.25                   | 118.711           |                    |         |
| 7,300.00                                      | 7,202.57            | 8,324.70            | 6,803.76            | 26.85           | 34.44       | 99.66                 | 1,259.69                          | 7,046.85   | 7,276.78             | 7,215.63              | 61.15                   | 119.000           |                    |         |
| 7,400.00                                      | 7,301.06            | 8,318.88            | 6,803.83            | 27.23           | 34.37       | 99.74                 | 1,265.51                          | 7,046.61   | 7,285.17             | 7,223.75              | 61.42                   | 118.621           |                    |         |
| 7,500.00                                      | 7,399.97            | 8,313.83            | 6,803.89            | 27.61           | 34.31       | 99.84                 | 1,270.55                          | 7,046.41   | 7,294.46             | 7,232.79              | 61.68                   | 118.272           |                    |         |
| 7,600.00                                      | 7,499.23            | 8,309.58            | 6,803.95            | 27.98           | 34.26       | 99.96                 | 1,274.80                          | 7,046.25   | 7,304.66             | 7,242.73              | 61.93                   | 117.952           |                    |         |
| 7,700.00                                      | 7,598.77            | 8,306.14            | 6,803.99            | 28.34           | 34.23       | 100.10                | 1,278.24                          | 7,046.12   | 7,315.75             | 7,253.58              | 62.18                   | 117.661           |                    |         |
| 7,800.00                                      | 7,698.53            | 8,303.50            | 6,804.03            | 28.70           | 34.20       | 100.25                | 1,280.88                          | 7,046.02   | 7,327.74             | 7,265.32              | 62.42                   | 117.399           |                    |         |
| 7,900.00                                      | 7,798.44            | 8,301.68            | 6,804.06            | 29.05           | 34.18       | 100.43                | 1,282.69                          | 7,045.96   | 7,340.60             | 7,277.95              | 62.65                   | 117.165           |                    |         |
| 8,000.00                                      | 7,898.42            | 8,300.69            | 6,804.07            | 29.39           | 34.16       | 100.63                | 1,283.68                          | 7,045.92   | 7,354.33             | 7,291.45              | 62.88                   | 116.957           |                    |         |
| 8,013.58                                      | 7,912.00            | 8,300.62            | 6,804.07            | 29.43           | 34.16       | 87.88                 | 1,283.75                          | 7,045.92   | 7,356.26             | 7,293.35              | 62.91                   | 116.931           |                    |         |
| 8,100.00                                      | 7,998.42            | 8,300.22            | 6,804.08            | 29.73           | 34.16       | 87.87                 | 1,284.15                          | 7,045.91   | 7,369.10             | 7,305.99              | 63.10                   | 116.779           |                    |         |
| 8,200.00                                      | 8,098.42            | 8,299.75            | 6,804.08            | 30.07           | 34.15       | 87.87                 | 1,284.62                          | 7,045.89   | 7,385.18             | 7,321.86              | 63.32                   | 116.639           |                    |         |
| 8,300.00                                      | 8,198.42            | 8,299.29            | 6,804.09            | 30.41           | 34.15       | 87.87                 | 1,285.09                          | 7,045.88   | 7,402.58             | 7,339.06              | 63.52                   | 116.536           |                    |         |
| 8,363.62                                      | 8,262.04            | 8,298.99            | 6,804.09            | 30.62           | 34.15       | 87.86                 | 1,285.39                          | 7,045.87   | 7,414.33             | 7,350.68              | 63.65                   | 116.489           |                    |         |
| 8,400.00                                      | 8,298.40            | 8,298.83            | 6,804.10            | 30.75           | 34.14       | -1.78                 | 1,285.55                          | 7,045.86   | 7,420.15             | 7,356.43              | 63.72                   | 116.458           |                    |         |
| 8,450.00                                      | 8,348.10            | 8,298.64            | 6,804.10            | 30.91           | 34.14       | -1.76                 | 1,285.73                          | 7,045.85   | 7,424.70             | 7,360.90              | 63.80                   | 116.374           |                    |         |
| 8,500.00                                      | 8,397.14            | 8,298.50            | 6,804.10            | 31.07           | 34.14       | -1.76                 | 1,285.87                          | 7,045.85   | 7,425.23             | 7,361.34              | 63.88                   | 116.236           |                    |         |
| 8,550.00                                      | 8,445.15            | 8,298.40            | 6,804.10            | 31.23           | 34.14       | -1.78                 | 1,285.97                          | 7,045.85   | 7,421.73             | 7,357.78              | 63.95                   | 116.046           |                    |         |
| 8,600.00                                      | 8,491.77            | 8,298.35            | 6,804.10            | 31.38           | 34.14       | -1.80                 | 1,286.02                          | 7,045.84   | 7,414.24             | 7,350.22              | 64.02                   | 115.807           |                    |         |
| 8,650.00                                      | 8,536.65            | 8,298.34            | 6,804.10            | 31.52           | 34.14       | -1.84                 | 1,286.03                          | 7,045.84   | 7,402.80             | 7,338.71              | 64.08                   | 115.521           |                    |         |
| 8,700.00                                      | 8,579.43            | 8,298.38            | 6,804.10            | 31.66           | 34.14       | -1.89                 | 1,285.99                          | 7,045.84   | 7,387.46             | 7,323.33              | 64.13                   | 115.190           |                    |         |
| 8,750.00                                      | 8,619.80            | 8,298.47            | 6,804.10            | 31.80           | 34.14       | -1.96                 | 1,285.90                          | 7,045.85   | 7,368.34             | 7,304.16              | 64.17                   | 114.817           |                    |         |
| 8,800.00                                      | 8,657.44            | 8,298.60            | 6,804.10            | 31.93           | 34.14       | -2.05                 | 1,285.77                          | 7,045.85   | 7,345.54             | 7,281.33              | 64.21                   | 114.403           |                    |         |
| 8,850.00                                      | 8,692.08            | 8,298.78            | 6,804.10            | 32.06           | 34.14       | -2.16                 | 1,285.59                          | 7,045.86   | 7,319.20             | 7,254.96              | 64.23                   | 113.950           |                    |         |
| 8,900.00                                      | 8,723.44            | 8,299.01            | 6,804.09            | 32.19           | 34.15       | -2.30                 | 1,285.36                          | 7,045.87   | 7,289.48             | 7,225.24              | 64.25                   | 113.461           |                    |         |
| 8,950.00                                      | 8,751.29            | 8,299.28            | 6,804.09            | 32.34           | 34.15       | -2.48                 | 1,285.09                          | 7,045.88   | 7,256.58             | 7,192.33              | 64.25                   | 112.937           |                    |         |
| 9,000.00                                      | 8,775.42            | 8,299.60            | 6,804.08            | 32.50           | 34.15       | -2.71                 | 1,284.78                          | 7,045.89   | 7,220.71             | 7,156.45              | 64.25                   | 112.381           |                    |         |
| 9,050.00                                      | 8,795.64            | 8,299.95            | 6,804.08            | 32.67           | 34.16       | -3.01                 | 1,284.42                          | 7,045.90   | 7,182.08             | 7,117.84              | 64.24                   | 111.793           |                    |         |
| 9,100.00                                      | 8,811.80            | 8,300.35            | 6,804.07            | 32.87           | 34.16       | -3.41                 | 1,284.02                          | 7,045.91   | 7,140.96             | 7,076.73              | 64.23                   | 111.175           |                    |         |
| 9,150.00                                      | 8,823.77            | 8,300.78            | 6,804.07            | 33.10           | 34.17       | -3.96                 | 1,283.59                          | 7,045.93   | 7,097.61             | 7,033.40              | 64.21                   | 110.530           |                    |         |
| 9,200.00                                      | 8,831.47            | 8,301.25            | 6,804.06            | 33.34           | 34.17       | -4.77                 | 1,283.12                          | 7,045.94   | 7,052.34             | 6,988.14              | 64.19                   | 109.859           |                    |         |
| 9,250.00                                      | 8,834.84            | 8,301.76            | 6,804.05            | 33.60           | 34.18       | -6.03                 | 1,282.62                          | 7,045.96   | 7,005.44             | 6,941.27              | 64.17                   | 109.164           |                    |         |
| 9,263.62                                      | 8,835.00            | 8,301.90            | 6,804.05            | 33.67           | 34.18       | -6.51                 | 1,282.48                          | 7,045.97   | 6,992.43             | 6,928.26              | 64.17                   | 108.968           |                    |         |
| 9,300.00                                      | 8,835.00            | 8,302.28            | 6,804.05            | 33.88           | 34.18       | -6.50                 | 1,282.10                          | 7,045.98   | 6,957.55             | 6,893.40              | 64.15                   | 108.455           |                    |         |
| 9,400.00                                      | 8,835.00            | 8,303.35            | 6,804.03            | 34.53           | 34.19       | -6.47                 | 1,281.03                          | 7,046.02   | 6,861.77             | 6,797.67              | 64.10                   | 107.044           |                    |         |
| 9,500.00                                      | 8,835.00            | 8,304.44            | 6,804.02            | 35.30           | 34.21       | -6.44                 | 1,279.94                          | 7,046.06   | 6,766.11             | 6,702.06              | 64.05                   | 105.632           |                    |         |
| 9,600.00                                      | 8,835.00            | 8,305.55            | 6,804.00            | 36.17           | 34.22       | -6.40                 | 1,278.83                          | 7,046.10   | 6,670.58             | 6,606.57              | 64.01                   | 104.219           |                    |         |
| 9,700.00                                      | 8,835.00            | 8,306.69            | 6,803.99            | 37.13           | 34.23       | -6.37                 | 1,277.69                          | 7,046.14   | 6,575.18             | 6,511.22              | 63.96                   | 102.804           |                    |         |
| 9,800.00                                      | 8,835.00            | 8,307.85            | 6,803.97            | 38.18           | 34.25       | -6.34                 | 1,276.53                          | 7,046.18   | 6,479.92             | 6,416.00              | 63.91                   | 101.388           |                    |         |
| 9,900.00                                      | 8,835.00            | 8,309.04            | 6,803.95            | 39.31           | 34.26       | -6.30                 | 1,275.34                          | 7,046.23   | 6,384.80             | 6,320.93              | 63.87                   | 99.970            |                    |         |
| 10,000.00                                     | 8,835.00            | 8,310.26            | 6,803.94            | 40.51           | 34.27       | -6.27                 | 1,274.12                          | 7,046.27   | 6,289.83             | 6,226.01              | 63.82                   | 98.551            |                    |         |
| 10,100.00                                     | 8,835.00            | 8,311.51            | 6,803.92            | 41.78           | 34.29       | -6.23                 | 1,272.87                          | 7,046.32   | 6,195.02             | 6,131.24              | 63.78                   | 97.132            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 111-GYRO-NS-CT, 6243-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 10,200.00                                     | 8,835.00            | 8,312.78            | 6,803.90            | 43.10           | 34.30       | -6.20                 | 1,271.60                          | 7,046.37   | 6,100.38             | 6,036.64              | 63.74                   | 95.710            |                    |         |
| 10,300.00                                     | 8,835.00            | 8,314.09            | 6,803.89            | 44.49           | 34.32       | -6.16                 | 1,270.30                          | 7,046.42   | 6,005.91             | 5,942.21              | 63.70                   | 94.288            |                    |         |
| 10,400.00                                     | 8,835.00            | 8,315.43            | 6,803.87            | 45.92           | 34.33       | -6.12                 | 1,268.96                          | 7,046.47   | 5,911.62             | 5,847.96              | 63.66                   | 92.865            |                    |         |
| 10,500.00                                     | 8,835.00            | 8,316.80            | 6,803.85            | 47.39           | 34.35       | -6.08                 | 1,267.59                          | 7,046.53   | 5,817.52             | 5,753.90              | 63.62                   | 91.440            |                    |         |
| 10,600.00                                     | 8,835.00            | 8,318.20            | 6,803.84            | 48.91           | 34.36       | -6.04                 | 1,266.19                          | 7,046.58   | 5,723.62             | 5,660.03              | 63.59                   | 90.015            |                    |         |
| 10,700.00                                     | 8,835.00            | 8,319.64            | 6,803.82            | 50.47           | 34.38       | -6.00                 | 1,264.75                          | 7,046.64   | 5,629.93             | 5,566.38              | 63.55                   | 88.588            |                    |         |
| 10,800.00                                     | 8,835.00            | 8,321.11            | 6,803.80            | 52.06           | 34.39       | -5.96                 | 1,263.28                          | 7,046.70   | 5,536.46             | 5,472.94              | 63.52                   | 87.161            |                    |         |
| 10,900.00                                     | 8,835.00            | 8,322.62            | 6,803.78            | 53.68           | 34.41       | -5.91                 | 1,261.77                          | 7,046.76   | 5,443.22             | 5,379.73              | 63.49                   | 85.733            |                    |         |
| 11,000.00                                     | 8,835.00            | 8,324.17            | 6,803.76            | 55.32           | 34.43       | -5.87                 | 1,260.22                          | 7,046.83   | 5,350.22             | 5,286.76              | 63.46                   | 84.304            |                    |         |
| 11,100.00                                     | 8,835.00            | 8,325.77            | 6,803.74            | 57.00           | 34.45       | -5.82                 | 1,258.63                          | 7,046.90   | 5,257.48             | 5,194.04              | 63.44                   | 82.874            |                    |         |
| 11,200.00                                     | 8,835.00            | 8,327.40            | 6,803.72            | 58.70           | 34.47       | -5.78                 | 1,257.00                          | 7,046.97   | 5,165.01             | 5,101.59              | 63.42                   | 81.443            |                    |         |
| 11,300.00                                     | 8,835.00            | 8,329.08            | 6,803.71            | 60.41           | 34.48       | -5.73                 | 1,255.32                          | 7,047.04   | 5,072.82             | 5,009.42              | 63.40                   | 80.012            |                    |         |
| 11,400.00                                     | 8,835.00            | 8,330.80            | 6,803.69            | 62.15           | 34.50       | -5.68                 | 1,253.60                          | 7,047.11   | 4,980.93             | 4,917.55              | 63.39                   | 78.580            |                    |         |
| 11,500.00                                     | 8,835.00            | 8,332.57            | 6,803.67            | 63.91           | 34.52       | -5.63                 | 1,251.83                          | 7,047.19   | 4,889.36             | 4,825.99              | 63.38                   | 77.148            |                    |         |
| 11,600.00                                     | 8,835.00            | 8,334.40            | 6,803.65            | 65.69           | 34.54       | -5.57                 | 1,250.01                          | 7,047.27   | 4,798.13             | 4,734.76              | 63.37                   | 75.715            |                    |         |
| 11,700.00                                     | 8,835.00            | 8,336.27            | 6,803.62            | 67.47           | 34.57       | -5.52                 | 1,248.14                          | 7,047.36   | 4,707.25             | 4,643.88              | 63.37                   | 74.282            |                    |         |
| 11,800.00                                     | 8,835.00            | 8,338.20            | 6,803.60            | 69.28           | 34.59       | -5.47                 | 1,246.21                          | 7,047.45   | 4,616.74             | 4,553.37              | 63.37                   | 72.848            |                    |         |
| 11,900.00                                     | 8,835.00            | 8,339.00            | 6,803.40            | 71.09           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 4,526.72             | 4,463.17              | 63.55                   | 71.232            |                    |         |
| 12,000.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 72.92           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 4,437.02             | 4,373.47              | 63.54                   | 69.825            |                    |         |
| 12,100.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 74.76           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 4,347.76             | 4,284.22              | 63.55                   | 68.418            |                    |         |
| 12,200.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 76.61           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 4,258.99             | 4,195.43              | 63.56                   | 67.010            |                    |         |
| 12,300.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 78.47           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 4,170.72             | 4,107.15              | 63.58                   | 65.602            |                    |         |
| 12,400.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 80.34           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 4,083.00             | 4,019.40              | 63.60                   | 64.193            |                    |         |
| 12,500.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 82.22           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 3,995.85             | 3,932.21              | 63.64                   | 62.786            |                    |         |
| 12,600.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 84.11           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 3,909.32             | 3,845.63              | 63.69                   | 61.378            |                    |         |
| 12,700.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 86.00           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 3,823.45             | 3,759.69              | 63.75                   | 59.972            |                    |         |
| 12,800.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 87.90           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 3,738.27             | 3,674.44              | 63.83                   | 58.567            |                    |         |
| 12,900.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 89.81           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 3,653.85             | 3,589.93              | 63.92                   | 57.164            |                    |         |
| 13,000.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 91.72           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 3,570.24             | 3,506.21              | 64.02                   | 55.764            |                    |         |
| 13,100.00                                     | 8,835.00            | 8,359.00            | 6,803.40            | 93.64           | 34.82       | -4.87                 | 1,225.43                          | 7,048.47   | 3,487.48             | 3,423.33              | 64.15                   | 54.367            |                    |         |
| 13,200.00                                     | 8,835.00            | 8,373.08            | 6,803.26            | 95.56           | 34.98       | -4.46                 | 1,211.37                          | 7,049.21   | 3,405.61             | 3,341.24              | 64.37                   | 52.911            |                    |         |
| 13,300.00                                     | 8,835.00            | 8,376.07            | 6,803.22            | 97.49           | 35.02       | -4.37                 | 1,208.39                          | 7,049.37   | 3,324.75             | 3,260.21              | 64.54                   | 51.518            |                    |         |
| 13,400.00                                     | 8,835.00            | 8,379.07            | 6,803.18            | 99.42           | 35.05       | -4.29                 | 1,205.39                          | 7,049.53   | 3,244.96             | 3,180.23              | 64.72                   | 50.135            |                    |         |
| 13,500.00                                     | 8,835.00            | 8,382.09            | 6,803.14            | 101.36          | 35.09       | -4.20                 | 1,202.38                          | 7,049.69   | 3,166.30             | 3,101.37              | 64.93                   | 48.763            |                    |         |
| 13,600.00                                     | 8,835.00            | 8,385.11            | 6,803.09            | 103.30          | 35.12       | -4.11                 | 1,199.36                          | 7,049.85   | 3,088.88             | 3,023.72              | 65.16                   | 47.403            |                    |         |
| 13,700.00                                     | 8,835.00            | 8,388.16            | 6,803.05            | 105.25          | 35.16       | -4.03                 | 1,196.32                          | 7,050.01   | 3,012.79             | 2,947.37              | 65.41                   | 46.057            |                    |         |
| 13,800.00                                     | 8,835.00            | 8,391.22            | 6,803.00            | 107.20          | 35.19       | -3.94                 | 1,193.27                          | 7,050.18   | 2,938.12             | 2,872.43              | 65.69                   | 44.728            |                    |         |
| 13,900.00                                     | 8,835.00            | 8,394.29            | 6,802.95            | 109.15          | 35.23       | -3.85                 | 1,190.20                          | 7,050.34   | 2,864.99             | 2,799.01              | 65.99                   | 43.418            |                    |         |
| 14,000.00                                     | 8,835.00            | 8,397.38            | 6,802.89            | 111.10          | 35.27       | -3.76                 | 1,187.12                          | 7,050.51   | 2,793.52             | 2,727.22              | 66.31                   | 42.129            |                    |         |
| 14,100.00                                     | 8,835.00            | 8,400.48            | 6,802.83            | 113.06          | 35.30       | -3.67                 | 1,184.02                          | 7,050.67   | 2,723.85             | 2,657.19              | 66.66                   | 40.865            |                    |         |
| 14,200.00                                     | 8,835.00            | 8,403.60            | 6,802.78            | 115.03          | 35.34       | -3.58                 | 1,180.91                          | 7,050.84   | 2,656.10             | 2,589.08              | 67.03                   | 39.627            |                    |         |
| 14,300.00                                     | 8,835.00            | 8,406.73            | 6,802.71            | 116.99          | 35.37       | -3.49                 | 1,177.78                          | 7,051.01   | 2,590.44             | 2,523.02              | 67.43                   | 38.419            |                    |         |
| 14,400.00                                     | 8,835.00            | 8,409.87            | 6,802.65            | 118.96          | 35.41       | -3.40                 | 1,174.64                          | 7,051.18   | 2,527.03             | 2,459.18              | 67.85                   | 37.246            |                    |         |
| 14,500.00                                     | 8,835.00            | 8,413.03            | 6,802.58            | 120.93          | 35.45       | -3.31                 | 1,171.48                          | 7,051.35   | 2,466.04             | 2,397.74              | 68.29                   | 36.109            |                    |         |
| 14,600.00                                     | 8,835.00            | 8,416.21            | 6,802.51            | 122.90          | 35.48       | -3.21                 | 1,168.31                          | 7,051.53   | 2,407.64             | 2,338.88              | 68.76                   | 35.013            |                    |         |
| 14,700.00                                     | 8,835.00            | 8,419.40            | 6,802.44            | 124.88          | 35.52       | -3.12                 | 1,165.13                          | 7,051.70   | 2,352.05             | 2,282.79              | 69.26                   | 33.961            |                    |         |
| 14,800.00                                     | 8,835.00            | 8,422.61            | 6,802.36            | 126.86          | 35.56       | -3.03                 | 1,161.93                          | 7,051.87   | 2,299.46             | 2,229.69              | 69.77                   | 32.958            |                    |         |
| 14,900.00                                     | 8,835.00            | 8,425.83            | 6,802.29            | 128.84          | 35.60       | -2.94                 | 1,158.71                          | 7,052.05   | 2,250.07             | 2,179.77              | 70.30                   | 32.005            |                    |         |
| 15,000.00                                     | 8,835.00            | 8,429.07            | 6,802.20            | 130.82          | 35.63       | -2.84                 | 1,155.48                          | 7,052.23   | 2,204.12             | 2,133.26              | 70.86                   | 31.107            |                    |         |
| 15,100.00                                     | 8,835.00            | 8,432.32            | 6,802.12            | 132.80          | 35.67       | -2.75                 | 1,152.23                          | 7,052.41   | 2,161.80             | 2,090.37              | 71.43                   | 30.265            |                    |         |
| 15,200.00                                     | 8,835.00            | 8,435.59            | 6,802.03            | 134.79          | 35.71       | -2.65                 | 1,148.97                          | 7,052.59   | 2,123.35             | 2,051.33              | 72.02                   | 29.481            |                    |         |
| 15,300.00                                     | 8,835.00            | 8,438.88            | 6,801.94            | 136.78          | 35.75       | -2.56                 | 1,145.69                          | 7,052.77   | 2,088.98             | 2,016.34              | 72.64                   | 28.758            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 111-GYRO-NS-CT, 6243-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 15,400.00                                     | 8,835.00            | 8,442.18            | 6,801.85            | 138.76          | 35.79       | -2.46                 | 1,142.39                          | 7,052.95   | 2,058.88             | 1,985.60              | 73.28                   | 28.095            |                    |         |
| 15,500.00                                     | 8,835.00            | 8,454.00            | 6,801.50            | 140.76          | 35.92       | -2.12                 | 1,130.59                          | 7,053.61   | 2,033.28             | 1,959.35              | 73.93                   | 27.504            |                    |         |
| 15,600.00                                     | 8,835.00            | 8,454.00            | 6,801.50            | 142.75          | 35.92       | -2.12                 | 1,130.59                          | 7,053.61   | 2,012.28             | 1,937.63              | 74.65                   | 26.956            |                    |         |
| 15,700.00                                     | 8,835.00            | 8,454.00            | 6,801.50            | 144.74          | 35.92       | -2.12                 | 1,130.59                          | 7,053.61   | 1,996.07             | 1,920.65              | 75.42                   | 26.465            |                    |         |
| 15,800.00                                     | 8,835.00            | 8,456.09            | 6,801.43            | 146.74          | 35.95       | -2.06                 | 1,128.51                          | 7,053.72   | 1,984.77             | 1,908.54              | 76.24                   | 26.035            |                    |         |
| 15,900.00                                     | 8,835.00            | 8,460.59            | 6,801.29            | 148.73          | 36.00       | -1.93                 | 1,124.02                          | 7,053.97   | 1,978.46             | 1,901.37              | 77.09                   | 25.665            |                    |         |
| 15,975.33                                     | 8,835.00            | 8,463.95            | 6,801.18            | 150.24          | 36.04       | -1.83                 | 1,120.67                          | 7,054.16   | 1,977.03             | 1,899.27              | 77.76                   | 25.423 CC         |                    |         |
| 16,000.00                                     | 8,835.00            | 8,465.04            | 6,801.15            | 150.73          | 36.05       | -1.80                 | 1,119.58                          | 7,054.22   | 1,977.18             | 1,899.19              | 77.99                   | 25.351 ES         |                    |         |
| 16,100.00                                     | 8,835.00            | 8,469.42            | 6,801.00            | 152.73          | 36.10       | -1.68                 | 1,115.20                          | 7,054.46   | 1,980.95             | 1,902.01              | 78.94                   | 25.096            |                    |         |
| 16,200.00                                     | 8,835.00            | 8,473.75            | 6,800.86            | 154.73          | 36.16       | -1.55                 | 1,110.88                          | 7,054.70   | 1,989.73             | 1,909.82              | 79.91                   | 24.900            |                    |         |
| 16,300.00                                     | 8,835.00            | 8,478.03            | 6,800.73            | 156.73          | 36.21       | -1.43                 | 1,106.62                          | 7,054.93   | 2,003.46             | 1,922.56              | 80.89                   | 24.766            |                    |         |
| 16,400.00                                     | 8,835.00            | 8,482.24            | 6,800.59            | 158.74          | 36.26       | -1.30                 | 1,102.41                          | 7,055.15   | 2,022.03             | 1,940.16              | 81.87                   | 24.697            |                    |         |
| 16,500.00                                     | 8,835.00            | 8,486.41            | 6,800.45            | 160.74          | 36.30       | -1.18                 | 1,098.25                          | 7,055.38   | 2,045.33             | 1,962.50              | 82.83                   | 24.694            |                    |         |
| 16,600.00                                     | 8,835.00            | 8,490.52            | 6,800.31            | 162.74          | 36.35       | -1.06                 | 1,094.15                          | 7,055.60   | 2,073.17             | 1,989.44              | 83.74                   | 24.758            |                    |         |
| 16,700.00                                     | 8,835.00            | 8,494.58            | 6,800.18            | 164.75          | 36.40       | -0.95                 | 1,090.10                          | 7,055.81   | 2,105.40             | 2,020.81              | 84.59                   | 24.888            |                    |         |
| 16,800.00                                     | 8,835.00            | 8,498.59            | 6,800.04            | 166.76          | 36.45       | -0.83                 | 1,086.10                          | 7,056.02   | 2,141.81             | 2,056.42              | 85.38                   | 25.084            |                    |         |
| 16,900.00                                     | 8,835.00            | 8,502.54            | 6,799.91            | 168.77          | 36.49       | -0.72                 | 1,082.15                          | 7,056.23   | 2,182.18             | 2,096.08              | 86.10                   | 25.343            |                    |         |
| 17,000.00                                     | 8,835.00            | 8,506.45            | 6,799.77            | 170.77          | 36.54       | -0.60                 | 1,078.25                          | 7,056.43   | 2,226.31             | 2,139.56              | 86.75                   | 25.663            |                    |         |
| 17,100.00                                     | 8,835.00            | 8,510.31            | 6,799.64            | 172.78          | 36.59       | -0.49                 | 1,074.39                          | 7,056.63   | 2,273.98             | 2,186.66              | 87.32                   | 26.042            |                    |         |
| 17,200.00                                     | 8,835.00            | 8,514.13            | 6,799.51            | 174.79          | 36.63       | -0.38                 | 1,070.59                          | 7,056.83   | 2,324.96             | 2,237.15              | 87.82                   | 26.475            |                    |         |
| 17,300.00                                     | 8,835.00            | 8,517.89            | 6,799.38            | 176.81          | 36.68       | -0.27                 | 1,066.83                          | 7,057.02   | 2,379.05             | 2,290.81              | 88.25                   | 26.959            |                    |         |
| 17,400.00                                     | 8,835.00            | 8,521.61            | 6,799.25            | 178.82          | 36.72       | -0.16                 | 1,063.11                          | 7,057.21   | 2,436.04             | 2,347.43              | 88.61                   | 27.491            |                    |         |
| 17,500.00                                     | 8,835.00            | 8,525.29            | 6,799.12            | 180.83          | 36.76       | -0.06                 | 1,059.45                          | 7,057.40   | 2,495.73             | 2,406.82              | 88.92                   | 28.068            |                    |         |
| 17,600.00                                     | 8,835.00            | 8,528.92            | 6,798.99            | 182.84          | 36.81       | 0.05                  | 1,055.82                          | 7,057.58   | 2,557.94             | 2,468.77              | 89.17                   | 28.687            |                    |         |
| 17,700.00                                     | 8,835.00            | 8,532.51            | 6,798.86            | 184.86          | 36.85       | 0.15                  | 1,052.24                          | 7,057.76   | 2,622.47             | 2,533.10              | 89.37                   | 29.344            |                    |         |
| 17,800.00                                     | 8,835.00            | 8,536.06            | 6,798.73            | 186.87          | 36.89       | 0.25                  | 1,048.70                          | 7,057.94   | 2,689.17             | 2,599.64              | 89.53                   | 30.036            |                    |         |
| 17,900.00                                     | 8,835.00            | 8,539.56            | 6,798.61            | 188.89          | 36.93       | 0.35                  | 1,045.20                          | 7,058.11   | 2,757.87             | 2,668.22              | 89.66                   | 30.761            |                    |         |
| 18,000.00                                     | 8,835.00            | 8,543.03            | 6,798.48            | 190.91          | 36.97       | 0.45                  | 1,041.74                          | 7,058.28   | 2,828.44             | 2,738.70              | 89.75                   | 31.516            |                    |         |
| 18,100.00                                     | 8,835.00            | 8,546.45            | 6,798.36            | 192.92          | 37.01       | 0.55                  | 1,038.32                          | 7,058.45   | 2,900.74             | 2,810.93              | 89.81                   | 32.299            |                    |         |
| 18,200.00                                     | 8,835.00            | 8,550.64            | 6,798.20            | 194.94          | 37.06       | 0.67                  | 1,034.14                          | 7,058.66   | 2,974.63             | 2,884.78              | 89.86                   | 33.104            |                    |         |
| 18,300.00                                     | 8,835.00            | 8,557.57            | 6,797.95            | 196.96          | 37.15       | 0.87                  | 1,027.23                          | 7,059.00   | 3,050.01             | 2,960.10              | 89.91                   | 33.923            |                    |         |
| 18,400.00                                     | 8,835.00            | 8,565.05            | 6,797.66            | 198.98          | 37.24       | 1.09                  | 1,019.77                          | 7,059.39   | 3,126.75             | 3,036.80              | 89.95                   | 34.759            |                    |         |
| 18,500.00                                     | 8,835.00            | 8,573.15            | 6,797.35            | 201.00          | 37.33       | 1.32                  | 1,011.68                          | 7,059.83   | 3,204.77             | 3,114.78              | 90.00                   | 35.610            |                    |         |
| 18,600.00                                     | 8,835.00            | 8,581.96            | 6,797.00            | 203.02          | 37.44       | 1.58                  | 1,002.89                          | 7,060.32   | 3,283.97             | 3,193.93              | 90.04                   | 36.473            |                    |         |
| 18,700.00                                     | 8,835.00            | 8,591.57            | 6,796.62            | 205.04          | 37.56       | 1.85                  | 993.30                            | 7,060.87   | 3,364.26             | 3,274.17              | 90.09                   | 37.344            |                    |         |
| 18,800.00                                     | 8,835.00            | 8,602.10            | 6,796.19            | 207.06          | 37.68       | 2.16                  | 982.80                            | 7,061.51   | 3,445.57             | 3,355.42              | 90.15                   | 38.222            |                    |         |
| 18,900.00                                     | 8,835.00            | 8,613.69            | 6,795.70            | 209.08          | 37.82       | 2.49                  | 971.25                            | 7,062.24   | 3,527.82             | 3,437.60              | 90.22                   | 39.102            |                    |         |
| 19,000.00                                     | 8,835.00            | 8,626.49            | 6,795.14            | 211.10          | 37.98       | 2.86                  | 958.48                            | 7,063.08   | 3,610.94             | 3,520.63              | 90.32                   | 39.981            |                    |         |
| 19,100.00                                     | 8,835.00            | 19,100.00           | 6,793.08            | 213.12          | 168.47      | 4.73                  | 893.20                            | 7,067.94   | 3,694.56             | 3,488.19              | 206.37                  | 17.902 SF         |                    |         |
| 19,200.00                                     | 8,835.00            | 8,746.53            | 6,791.76            | 215.15          | 39.45       | 6.28                  | 838.85                            | 7,072.11   | 3,779.37             | 3,687.15              | 92.22                   | 40.983            |                    |         |
| 19,308.27                                     | 8,835.00            | 8,752.44            | 6,791.71            | 217.34          | 39.53       | 6.45                  | 832.95                            | 7,072.58   | 3,871.70             | 3,779.46              | 92.24                   | 41.975            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|---------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 106-MWD+IGRF, 2746-MWD+IGRF |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.00 ft |
| Reference                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                                        | 0.00                | 0.00                | 0.00                | 0.50            | 5.00        | 65.80                 | 2,649.20                          | 5,895.07   | 6,463.22             |                       |                         |                   |                    |         |
| 100.00                                      | 100.00              | 50.31               | 50.31               | 0.52            | 5.00        | 65.80                 | 2,649.04                          | 5,895.12   | 6,462.96             | 6,457.44              | 5.52                    | 1,171.200         |                    |         |
| 200.00                                      | 200.00              | 323.76              | 323.69              | 0.70            | 5.08        | 65.79                 | 2,648.06                          | 5,890.48   | 6,460.82             | 6,455.04              | 5.79                    | 1,116.780         |                    |         |
| 300.00                                      | 300.00              | 390.22              | 390.10              | 0.99            | 5.13        | 65.78                 | 2,648.84                          | 5,888.28   | 6,458.29             | 6,452.17              | 6.12                    | 1,055.771         |                    |         |
| 400.00                                      | 400.00              | 456.47              | 456.33              | 1.31            | 5.19        | 65.77                 | 2,649.33                          | 5,886.64   | 6,456.32             | 6,449.82              | 6.50                    | 993.809           |                    |         |
| 500.00                                      | 500.00              | 538.19              | 538.03              | 1.65            | 5.28        | 65.76                 | 2,649.68                          | 5,885.07   | 6,454.73             | 6,447.82              | 6.92                    | 932.933           |                    |         |
| 600.00                                      | 600.00              | 608.03              | 607.86              | 1.99            | 5.36        | 65.75                 | 2,650.16                          | 5,883.89   | 6,453.49             | 6,446.14              | 7.35                    | 878.303           |                    |         |
| 700.00                                      | 700.00              | 687.44              | 687.26              | 2.34            | 5.47        | 65.74                 | 2,650.92                          | 5,882.88   | 6,452.71             | 6,444.91              | 7.80                    | 826.813           |                    |         |
| 800.00                                      | 800.00              | 790.97              | 790.79              | 2.69            | 5.63        | 65.73                 | 2,651.95                          | 5,881.67   | 6,452.06             | 6,443.75              | 8.31                    | 775.995           |                    |         |
| 900.00                                      | 900.00              | 935.18              | 934.98              | 3.04            | 5.88        | 65.72                 | 2,652.75                          | 5,879.64   | 6,451.00             | 6,442.08              | 8.92                    | 723.103           |                    |         |
| 1,000.00                                    | 1,000.00            | 1,014.95            | 1,014.73            | 3.40            | 6.04        | 65.71                 | 2,653.11                          | 5,878.38   | 6,449.75             | 6,440.32              | 9.43                    | 683.909           |                    |         |
| 1,100.00                                    | 1,100.00            | 1,070.71            | 1,070.49            | 3.75            | 6.15        | 65.70                 | 2,653.45                          | 5,877.76   | 6,449.00             | 6,439.10              | 9.90                    | 651.493           |                    |         |
| 1,166.58                                    | 1,166.58            | 1,111.00            | 1,110.78            | 3.99            | 6.24        | 65.70                 | 2,653.71                          | 5,877.57   | 6,448.88             | 6,438.66              | 10.22                   | 631.031           |                    |         |
| 1,200.00                                    | 1,200.00            | 1,127.60            | 1,127.38            | 4.11            | 6.27        | 65.70                 | 2,653.83                          | 5,877.55   | 6,448.93             | 6,438.56              | 10.37                   | 621.704           |                    |         |
| 1,300.00                                    | 1,300.00            | 1,189.27            | 1,189.04            | 4.46            | 6.40        | 65.70                 | 2,654.43                          | 5,877.66   | 6,449.49             | 6,438.63              | 10.86                   | 593.877           |                    |         |
| 1,400.00                                    | 1,400.00            | 1,259.22            | 1,258.99            | 4.82            | 6.55        | 65.69                 | 2,655.26                          | 5,878.14   | 6,450.60             | 6,439.23              | 11.37                   | 567.439           |                    |         |
| 1,500.00                                    | 1,500.00            | 1,390.59            | 1,390.35            | 5.18            | 6.85        | 65.69                 | 2,656.31                          | 5,879.50   | 6,451.93             | 6,439.91              | 12.02                   | 536.624           |                    |         |
| 1,600.00                                    | 1,600.00            | 1,476.80            | 1,476.55            | 5.53            | 7.06        | 65.69                 | 2,656.62                          | 5,880.23   | 6,452.85             | 6,440.27              | 12.58                   | 512.793           |                    |         |
| 1,700.00                                    | 1,700.00            | 1,594.05            | 1,593.80            | 5.89            | 7.34        | 65.69                 | 2,656.62                          | 5,881.45   | 6,453.81             | 6,440.58              | 13.23                   | 487.922           |                    |         |
| 1,800.00                                    | 1,800.00            | 1,715.24            | 1,714.98            | 6.25            | 7.65        | 65.70                 | 2,656.26                          | 5,882.48   | 6,454.47             | 6,440.57              | 13.89                   | 464.562           |                    |         |
| 1,900.00                                    | 1,900.00            | 1,840.59            | 1,840.33            | 6.61            | 7.98        | 65.70                 | 2,656.35                          | 5,882.75   | 6,454.68             | 6,440.10              | 14.58                   | 442.557           |                    |         |
| 2,000.00                                    | 2,000.00            | 1,927.35            | 1,927.09            | 6.96            | 8.22        | 65.70                 | 2,656.15                          | 5,882.94   | 6,454.79             | 6,439.61              | 15.18                   | 425.248           |                    |         |
| 2,100.00                                    | 2,099.99            | 2,022.00            | 2,021.74            | 7.32            | 8.48        | 78.48                 | 2,656.50                          | 5,883.15   | 6,454.98             | 6,439.18              | 15.80                   | 408.520           |                    |         |
| 2,200.00                                    | 2,199.96            | 2,177.12            | 2,176.85            | 7.68            | 8.93        | 78.52                 | 2,656.98                          | 5,882.87   | 6,454.44             | 6,437.84              | 16.60                   | 388.726           |                    |         |
| 2,300.00                                    | 2,299.86            | 2,280.36            | 2,280.10            | 8.04            | 9.23        | 78.57                 | 2,657.08                          | 5,882.10   | 6,452.92             | 6,435.66              | 17.26                   | 373.819           |                    |         |
| 2,400.00                                    | 2,399.68            | 2,356.04            | 2,355.77            | 8.39            | 9.45        | 78.63                 | 2,656.89                          | 5,881.89   | 6,451.36             | 6,433.52              | 17.84                   | 361.629           |                    |         |
| 2,500.00                                    | 2,499.37            | 2,458.35            | 2,458.08            | 8.75            | 9.76        | 78.71                 | 2,656.80                          | 5,881.82   | 6,449.72             | 6,431.22              | 18.50                   | 348.686           |                    |         |
| 2,600.00                                    | 2,598.90            | 2,563.07            | 2,562.80            | 9.11            | 10.07       | 78.82                 | 2,656.95                          | 5,881.19   | 6,447.34             | 6,428.17              | 19.17                   | 336.334           |                    |         |
| 2,700.00                                    | 2,698.26            | 2,624.53            | 2,624.26            | 9.46            | 10.26       | 78.90                 | 2,657.13                          | 5,881.11   | 6,445.13             | 6,425.42              | 19.71                   | 326.936           |                    |         |
| 2,800.00                                    | 2,797.40            | 2,743.69            | 2,743.42            | 9.82            | 10.45       | 79.06                 | 2,657.23                          | 5,881.26   | 6,442.77             | 6,422.51              | 20.26                   | 317.998           |                    |         |
| 2,900.00                                    | 2,896.30            | 2,808.21            | 2,807.94            | 10.18           | 10.46       | 79.17                 | 2,657.32                          | 5,881.25   | 6,440.06             | 6,419.44              | 20.63                   | 312.184           |                    |         |
| 3,000.00                                    | 2,994.93            | 2,872.00            | 2,871.72            | 10.54           | 10.47       | 79.27                 | 2,658.49                          | 5,881.55   | 6,437.97             | 6,416.97              | 21.00                   | 306.607           |                    |         |
| 3,100.00                                    | 3,093.26            | 2,872.00            | 2,871.72            | 10.90           | 10.47       | 79.29                 | 2,658.49                          | 5,881.55   | 6,436.37             | 6,415.01              | 21.35                   | 301.431           |                    |         |
| 3,195.07                                    | 3,186.42            | 2,934.39            | 2,934.06            | 11.24           | 10.49       | 79.39                 | 2,660.79                          | 5,882.21   | 6,435.29             | 6,413.58              | 21.71                   | 296.396           |                    |         |
| 3,200.00                                    | 3,191.25            | 2,936.52            | 2,936.19            | 11.26           | 10.49       | 79.39                 | 2,660.89                          | 5,882.24   | 6,435.26             | 6,413.53              | 21.73                   | 296.146           |                    |         |
| 3,276.12                                    | 3,265.71            | 2,966.00            | 2,965.63            | 11.53           | 10.50       | 79.44                 | 2,662.37                          | 5,882.69   | 6,434.96             | 6,412.95              | 22.01                   | 292.353           |                    |         |
| 3,300.00                                    | 3,289.08            | 2,966.00            | 2,965.63            | 11.62           | 10.50       | 79.44                 | 2,662.37                          | 5,882.69   | 6,435.00             | 6,412.91              | 22.10                   | 291.240           |                    |         |
| 3,400.00                                    | 3,386.91            | 3,031.44            | 3,030.93            | 11.98           | 10.52       | 79.53                 | 2,666.40                          | 5,883.94   | 6,435.49             | 6,413.01              | 22.48                   | 286.228           |                    |         |
| 3,500.00                                    | 3,484.74            | 3,097.61            | 3,096.89            | 12.35           | 10.55       | 79.61                 | 2,671.32                          | 5,885.47   | 6,436.75             | 6,413.87              | 22.88                   | 281.342           |                    |         |
| 3,600.00                                    | 3,582.58            | 3,191.34            | 3,190.32            | 12.72           | 10.61       | 79.73                 | 2,678.70                          | 5,887.67   | 6,438.29             | 6,414.99              | 23.30                   | 276.293           |                    |         |
| 3,700.00                                    | 3,680.41            | 3,298.83            | 3,297.43            | 13.09           | 10.69       | 79.86                 | 2,687.33                          | 5,890.09   | 6,439.83             | 6,416.08              | 23.75                   | 271.128           |                    |         |
| 3,800.00                                    | 3,778.24            | 3,415.41            | 3,413.64            | 13.46           | 10.79       | 80.01                 | 2,696.29                          | 5,892.61   | 6,441.19             | 6,416.96              | 24.23                   | 265.873           |                    |         |
| 3,900.00                                    | 3,876.08            | 3,474.17            | 3,472.21            | 13.83           | 10.85       | 80.08                 | 2,700.86                          | 5,893.87   | 6,442.66             | 6,418.01              | 24.65                   | 261.349           |                    |         |
| 4,000.00                                    | 3,973.91            | 3,531.00            | 3,528.76            | 14.21           | 10.91       | 80.15                 | 2,706.22                          | 5,895.31   | 6,444.98             | 6,419.91              | 25.08                   | 257.002           |                    |         |
| 4,100.00                                    | 4,071.74            | 3,562.16            | 3,559.74            | 14.58           | 10.95       | 80.18                 | 2,709.51                          | 5,896.24   | 6,448.13             | 6,422.66              | 25.48                   | 253.101           |                    |         |
| 4,200.00                                    | 4,169.57            | 3,625.00            | 3,622.12            | 14.96           | 11.03       | 80.25                 | 2,716.70                          | 5,898.57   | 6,452.30             | 6,426.38              | 25.92                   | 248.944           |                    |         |
| 4,300.00                                    | 4,267.41            | 3,683.97            | 3,680.61            | 15.33           | 11.11       | 80.30                 | 2,723.80                          | 5,900.99   | 6,457.06             | 6,430.69              | 26.36                   | 244.922           |                    |         |
| 4,400.00                                    | 4,365.24            | 3,823.64            | 3,819.13            | 15.71           | 11.32       | 80.43                 | 2,740.86                          | 5,906.12   | 6,461.68             | 6,434.73              | 26.95                   | 239.761           |                    |         |
| 4,500.00                                    | 4,463.07            | 3,946.68            | 3,941.23            | 16.09           | 11.52       | 80.55                 | 2,755.67                          | 5,909.49   | 6,465.28             | 6,437.75              | 27.53                   | 234.824           |                    |         |
| 4,600.00                                    | 4,560.90            | 4,002.00            | 3,996.05            | 16.47           | 11.62       | 80.59                 | 2,762.92                          | 5,911.16   | 6,469.59             | 6,441.59              | 28.00                   | 231.094           |                    |         |
| 4,700.00                                    | 4,658.74            | 4,218.02            | 4,210.24            | 16.85           | 12.05       | 80.77                 | 2,790.56                          | 5,915.52   | 6,472.50             | 6,443.69              | 28.81                   | 224.660           |                    |         |
| 4,800.00                                    | 4,756.57            | 4,258.17            | 4,250.05            | 17.23           | 12.14       | 80.81                 | 2,795.78                          | 5,916.26   | 6,475.77             | 6,446.51              | 29.26                   | 221.309           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|---------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 106-MWD+IGRF, 2746-MWD+IGRF |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.00 ft |
| Reference                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 4,900.00                                    | 4,854.40            | 4,900.00            | 4,343.15            | 17.61           | 13.60       | 80.88                 | 2,808.41                          | 5,918.45   | 6,479.65             | 6,448.62              | 31.03                   | 208.836           |                    |         |
| 5,000.00                                    | 4,952.23            | 4,421.97            | 4,412.34            | 17.99           | 12.51       | 80.94                 | 2,817.61                          | 5,920.09   | 6,483.55             | 6,453.18              | 30.37                   | 213.487           |                    |         |
| 5,100.00                                    | 5,050.07            | 4,472.00            | 4,461.89            | 18.37           | 12.63       | 80.98                 | 2,824.27                          | 5,921.79   | 6,488.32             | 6,457.46              | 30.85                   | 210.308           |                    |         |
| 5,200.00                                    | 5,147.90            | 4,536.74            | 4,526.00            | 18.75           | 12.79       | 81.03                 | 2,832.97                          | 5,924.40   | 6,493.77             | 6,462.39              | 31.38                   | 206.972           |                    |         |
| 5,300.00                                    | 5,245.73            | 5,300.00            | 4,644.39            | 19.14           | 14.76       | 81.14                 | 2,848.74                          | 5,929.18   | 6,499.16             | 6,465.54              | 33.62                   | 193.336           |                    |         |
| 5,400.00                                    | 5,343.56            | 9,608.44            | 7,429.60            | 19.52           | 45.82       | 106.21                | 598.39                            | 5,996.23   | 6,488.48             | 6,426.05              | 62.43                   | 103.935           |                    |         |
| 5,500.00                                    | 5,441.40            | 5,500.00            | 7,428.24            | 19.90           | 24.91       | 105.80                | 643.44                            | 5,996.40   | 6,461.10             | 6,418.26              | 42.84                   | 150.824           |                    |         |
| 5,600.00                                    | 5,539.23            | 9,568.93            | 7,428.51            | 20.29           | 45.14       | 105.85                | 637.89                            | 5,996.41   | 6,435.12             | 6,372.13              | 62.99                   | 102.159           |                    |         |
| 5,700.00                                    | 5,637.06            | 9,524.32            | 7,427.11            | 20.67           | 44.37       | 105.45                | 682.48                            | 5,996.53   | 6,410.48             | 6,347.63              | 62.85                   | 101.989           |                    |         |
| 5,800.00                                    | 5,734.90            | 9,484.77            | 7,425.59            | 21.05           | 43.69       | 105.09                | 722.00                            | 5,996.55   | 6,387.21             | 6,324.42              | 62.79                   | 101.724           |                    |         |
| 5,900.00                                    | 5,832.73            | 9,466.54            | 7,424.86            | 21.44           | 43.38       | 104.92                | 740.22                            | 5,996.53   | 6,365.35             | 6,302.28              | 63.07                   | 100.929           |                    |         |
| 6,000.00                                    | 5,930.56            | 9,447.82            | 7,424.14            | 21.83           | 43.07       | 104.75                | 758.92                            | 5,996.50   | 6,344.94             | 6,281.62              | 63.33                   | 100.193           |                    |         |
| 6,100.00                                    | 6,028.39            | 9,428.59            | 7,423.45            | 22.21           | 42.74       | 104.58                | 778.14                            | 5,996.45   | 6,326.00             | 6,262.43              | 63.57                   | 99.514            |                    |         |
| 6,200.00                                    | 6,126.23            | 9,408.83            | 7,422.79            | 22.60           | 42.40       | 104.40                | 797.89                            | 5,996.37   | 6,308.54             | 6,244.75              | 63.79                   | 98.894            |                    |         |
| 6,300.00                                    | 6,224.06            | 9,387.77            | 7,422.13            | 22.98           | 42.05       | 104.21                | 818.94                            | 5,996.27   | 6,292.56             | 6,228.58              | 63.98                   | 98.350            |                    |         |
| 6,400.00                                    | 6,321.89            | 9,362.84            | 7,421.37            | 23.37           | 41.63       | 103.98                | 843.85                            | 5,996.13   | 6,278.07             | 6,213.97              | 64.10                   | 97.943            |                    |         |
| 6,500.00                                    | 6,419.72            | 9,337.90            | 7,420.61            | 23.76           | 41.21       | 103.76                | 868.79                            | 5,995.95   | 6,265.08             | 6,200.87              | 64.21                   | 97.578            |                    |         |
| 6,600.00                                    | 6,517.56            | 6,600.00            | 7,417.89            | 24.14           | 18.96       | 103.03                | 948.94                            | 5,994.92   | 6,253.47             | 6,228.14              | 25.32                   | 246.948           |                    |         |
| 6,700.00                                    | 6,615.39            | 9,204.00            | 7,415.89            | 24.53           | 38.97       | 102.54                | 1,002.58                          | 5,994.01   | 6,243.46             | 6,180.46              | 63.00                   | 99.099            |                    |         |
| 6,800.00                                    | 6,713.22            | 9,204.00            | 7,415.89            | 24.92           | 38.97       | 102.54                | 1,002.58                          | 5,994.01   | 6,234.81             | 6,171.33              | 63.48                   | 98.211            |                    |         |
| 6,900.00                                    | 6,811.05            | 9,182.33            | 7,415.03            | 25.30           | 38.61       | 102.34                | 1,024.23                          | 5,993.52   | 6,227.68             | 6,164.07              | 63.60                   | 97.915            |                    |         |
| 7,000.00                                    | 6,908.89            | 9,174.05            | 7,414.75            | 25.69           | 38.47       | 102.27                | 1,032.50                          | 5,993.35   | 6,222.15             | 6,158.23              | 63.93                   | 97.333            |                    |         |
| 7,100.00                                    | 7,006.72            | 9,165.44            | 7,414.49            | 26.08           | 38.33       | 102.19                | 1,041.11                          | 5,993.18   | 6,218.21             | 6,153.97              | 64.23                   | 96.807            |                    |         |
| 7,200.00                                    | 7,104.55            | 9,156.49            | 7,414.25            | 26.47           | 38.19       | 102.11                | 1,050.05                          | 5,993.01   | 6,215.85             | 6,151.32              | 64.52                   | 96.338            |                    |         |
| 7,216.87                                    | 7,121.05            | 9,154.95            | 7,414.21            | 26.53           | 38.16       | 102.09                | 1,051.60                          | 5,992.98   | 6,215.60             | 6,151.03              | 64.57                   | 96.264            |                    |         |
| 7,300.00                                    | 7,202.57            | 9,147.63            | 7,414.05            | 26.85           | 38.04       | 102.02                | 1,058.91                          | 5,992.86   | 6,214.88             | 6,150.08              | 64.80                   | 95.914            |                    |         |
| 7,342.30                                    | 7,244.17            | 9,144.17            | 7,413.98            | 27.01           | 37.98       | 101.98                | 1,062.38                          | 5,992.80   | 6,214.78             | 6,149.87              | 64.91                   | 95.742            |                    |         |
| 7,400.00                                    | 7,301.06            | 9,139.73            | 7,413.89            | 27.23           | 37.91       | 101.95                | 1,066.81                          | 5,992.73   | 6,214.96             | 6,149.89              | 65.07                   | 95.512            |                    |         |
| 7,500.00                                    | 7,399.97            | 9,132.87            | 7,413.78            | 27.61           | 37.80       | 101.90                | 1,073.67                          | 5,992.62   | 6,216.09             | 6,150.75              | 65.34                   | 95.132            |                    |         |
| 7,600.00                                    | 7,499.23            | 9,127.12            | 7,413.69            | 27.98           | 37.70       | 101.88                | 1,079.42                          | 5,992.54   | 6,218.28             | 6,152.66              | 65.61                   | 94.772            |                    |         |
| 7,700.00                                    | 7,598.77            | 9,110.00            | 7,413.53            | 28.34           | 37.42       | 101.77                | 1,096.53                          | 5,992.32   | 6,221.55             | 6,155.87              | 65.68                   | 94.724            |                    |         |
| 7,800.00                                    | 7,698.53            | 9,110.00            | 7,413.53            | 28.70           | 37.42       | 101.83                | 1,096.53                          | 5,992.32   | 6,225.85             | 6,159.84              | 66.01                   | 94.320            |                    |         |
| 7,900.00                                    | 7,798.44            | 9,110.00            | 7,413.53            | 29.05           | 37.42       | 101.91                | 1,096.53                          | 5,992.32   | 6,231.21             | 6,164.90              | 66.32                   | 93.963            |                    |         |
| 8,000.00                                    | 7,898.42            | 9,110.00            | 7,413.53            | 29.39           | 37.42       | 102.01                | 1,096.53                          | 5,992.32   | 6,237.64             | 6,171.03              | 66.60                   | 93.652            |                    |         |
| 8,013.58                                    | 7,912.00            | 9,110.00            | 7,413.53            | 29.43           | 37.42       | 89.24                 | 1,096.53                          | 5,992.32   | 6,238.59             | 6,171.95              | 66.64                   | 93.614            |                    |         |
| 8,100.00                                    | 7,998.42            | 9,110.00            | 7,413.53            | 29.73           | 37.42       | 89.24                 | 1,096.53                          | 5,992.32   | 6,245.32             | 6,178.44              | 66.88                   | 93.386            |                    |         |
| 8,200.00                                    | 8,098.42            | 9,110.00            | 7,413.53            | 30.07           | 37.42       | 89.24                 | 1,096.53                          | 5,992.32   | 6,254.58             | 6,187.45              | 67.14                   | 93.163            |                    |         |
| 8,300.00                                    | 8,198.42            | 9,110.00            | 7,413.53            | 30.41           | 37.42       | 89.24                 | 1,096.53                          | 5,992.32   | 6,265.43             | 6,198.05              | 67.38                   | 92.983            |                    |         |
| 8,363.62                                    | 8,262.04            | 9,110.00            | 7,413.53            | 30.62           | 37.42       | 89.24                 | 1,096.53                          | 5,992.32   | 6,273.15             | 6,205.62              | 67.53                   | 92.891            |                    |         |
| 8,400.00                                    | 8,298.40            | 9,119.33            | 7,413.61            | 30.75           | 37.58       | -0.33                 | 1,087.20                          | 5,992.44   | 6,276.70             | 6,208.93              | 67.76                   | 92.628            |                    |         |
| 8,450.00                                    | 8,348.10            | 9,119.69            | 7,413.61            | 30.91           | 37.58       | -0.33                 | 1,086.84                          | 5,992.44   | 6,278.16             | 6,210.29              | 67.87                   | 92.504            |                    |         |
| 8,500.00                                    | 8,397.14            | 9,120.09            | 7,413.61            | 31.07           | 37.59       | -0.32                 | 1,086.45                          | 5,992.45   | 6,275.66             | 6,207.69              | 67.97                   | 92.330            |                    |         |
| 8,550.00                                    | 8,445.15            | 9,120.50            | 7,413.62            | 31.23           | 37.60       | -0.32                 | 1,086.03                          | 5,992.45   | 6,269.22             | 6,201.15              | 68.06                   | 92.109            |                    |         |
| 8,600.00                                    | 8,491.77            | 9,120.94            | 7,413.62            | 31.38           | 37.60       | -0.33                 | 1,085.59                          | 5,992.46   | 6,258.86             | 6,190.71              | 68.15                   | 91.842            |                    |         |
| 8,650.00                                    | 8,536.65            | 9,121.41            | 7,413.63            | 31.52           | 37.61       | -0.33                 | 1,085.13                          | 5,992.46   | 6,244.65             | 6,176.42              | 68.22                   | 91.532            |                    |         |
| 8,700.00                                    | 8,579.43            | 9,121.89            | 7,413.63            | 31.66           | 37.62       | -0.34                 | 1,084.65                          | 5,992.47   | 6,226.67             | 6,158.38              | 68.29                   | 91.181            |                    |         |
| 8,750.00                                    | 8,619.80            | 9,122.38            | 7,413.64            | 31.80           | 37.63       | -0.35                 | 1,084.15                          | 5,992.48   | 6,205.02             | 6,136.68              | 68.34                   | 90.792            |                    |         |
| 8,800.00                                    | 8,657.44            | 9,122.89            | 7,413.64            | 31.93           | 37.63       | -0.36                 | 1,083.64                          | 5,992.48   | 6,179.84             | 6,111.45              | 68.39                   | 90.365            |                    |         |
| 8,850.00                                    | 8,692.08            | 9,123.41            | 7,413.65            | 32.06           | 37.64       | -0.37                 | 1,083.13                          | 5,992.49   | 6,151.27             | 6,082.84              | 68.42                   | 89.903            |                    |         |
| 8,900.00                                    | 8,723.44            | 9,123.92            | 7,413.66            | 32.19           | 37.65       | -0.40                 | 1,082.61                          | 5,992.50   | 6,119.48             | 6,051.03              | 68.44                   | 89.407            |                    |         |
| 8,950.00                                    | 8,751.29            | 9,124.44            | 7,413.66            | 32.34           | 37.66       | -0.42                 | 1,082.10                          | 5,992.50   | 6,084.66             | 6,016.20              | 68.46                   | 88.880            |                    |         |
| 9,000.00                                    | 8,775.42            | 9,124.95            | 7,413.67            | 32.50           | 37.67       | -0.46                 | 1,081.59                          | 5,992.51   | 6,047.04             | 5,978.58              | 68.46                   | 88.324            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|---------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 106-MWD+IGRF, 2746-MWD+IGRF |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.00 ft |
| Reference                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,050.00                                    | 8,795.64            | 9,125.44            | 7,413.67            | 32.67           | 37.68       | -0.51                 | 1,081.10                          | 5,992.52   | 6,006.85             | 5,938.39              | 68.46                   | 87.740            |                    |         |
| 9,100.00                                    | 8,811.80            | 9,125.91            | 7,413.68            | 32.87           | 37.68       | -0.58                 | 1,080.62                          | 5,992.52   | 5,964.34             | 5,895.89              | 68.45                   | 87.129            |                    |         |
| 9,150.00                                    | 8,823.77            | 9,126.36            | 7,413.69            | 33.10           | 37.69       | -0.68                 | 1,080.18                          | 5,992.53   | 5,919.80             | 5,851.36              | 68.44                   | 86.495            |                    |         |
| 9,200.00                                    | 8,831.47            | 9,126.77            | 7,413.69            | 33.34           | 37.70       | -0.83                 | 1,079.76                          | 5,992.54   | 5,873.51             | 5,805.09              | 68.42                   | 85.839            |                    |         |
| 9,250.00                                    | 8,834.84            | 9,127.15            | 7,413.70            | 33.60           | 37.70       | -1.08                 | 1,079.39                          | 5,992.54   | 5,825.80             | 5,757.40              | 68.41                   | 85.164            |                    |         |
| 9,263.62                                    | 8,835.00            | 9,127.24            | 7,413.70            | 33.67           | 37.71       | -1.18                 | 1,079.29                          | 5,992.54   | 5,812.60             | 5,744.20              | 68.40                   | 84.975            |                    |         |
| 9,300.00                                    | 8,835.00            | 9,127.50            | 7,413.70            | 33.88           | 37.71       | -1.17                 | 1,079.04                          | 5,992.55   | 5,777.25             | 5,708.86              | 68.39                   | 84.476            |                    |         |
| 9,400.00                                    | 8,835.00            | 9,128.20            | 7,413.71            | 34.53           | 37.72       | -1.14                 | 1,078.34                          | 5,992.56   | 5,680.13             | 5,611.78              | 68.35                   | 83.107            |                    |         |
| 9,500.00                                    | 8,835.00            | 9,128.91            | 7,413.72            | 35.30           | 37.73       | -1.11                 | 1,077.62                          | 5,992.57   | 5,583.12             | 5,514.81              | 68.30                   | 81.738            |                    |         |
| 9,600.00                                    | 8,835.00            | 9,129.65            | 7,413.73            | 36.17           | 37.75       | -1.08                 | 1,076.89                          | 5,992.58   | 5,486.21             | 5,417.95              | 68.26                   | 80.370            |                    |         |
| 9,700.00                                    | 8,835.00            | 9,130.40            | 7,413.74            | 37.13           | 37.76       | -1.05                 | 1,076.14                          | 5,992.59   | 5,389.41             | 5,321.19              | 68.22                   | 79.002            |                    |         |
| 9,800.00                                    | 8,835.00            | 9,131.17            | 7,413.75            | 38.18           | 37.77       | -1.02                 | 1,075.37                          | 5,992.60   | 5,292.74             | 5,224.56              | 68.18                   | 77.634            |                    |         |
| 9,900.00                                    | 8,835.00            | 9,131.95            | 7,413.76            | 39.31           | 37.78       | -0.99                 | 1,074.58                          | 5,992.61   | 5,196.19             | 5,128.06              | 68.13                   | 76.267            |                    |         |
| 10,000.00                                   | 8,835.00            | 9,132.76            | 7,413.77            | 40.51           | 37.80       | -0.95                 | 1,073.78                          | 5,992.62   | 5,099.77             | 5,031.68              | 68.09                   | 74.901            |                    |         |
| 10,100.00                                   | 8,835.00            | 9,133.58            | 7,413.79            | 41.78           | 37.81       | -0.92                 | 1,072.95                          | 5,992.64   | 5,003.50             | 4,935.45              | 68.04                   | 73.535            |                    |         |
| 10,200.00                                   | 8,835.00            | 9,134.43            | 7,413.80            | 43.10           | 37.82       | -0.88                 | 1,072.11                          | 5,992.65   | 4,907.37             | 4,839.37              | 68.00                   | 72.170            |                    |         |
| 10,300.00                                   | 8,835.00            | 9,135.29            | 7,413.81            | 44.49           | 37.84       | -0.85                 | 1,071.24                          | 5,992.66   | 4,811.40             | 4,743.45              | 67.95                   | 70.807            |                    |         |
| 10,400.00                                   | 8,835.00            | 9,136.18            | 7,413.83            | 45.92           | 37.85       | -0.81                 | 1,070.36                          | 5,992.67   | 4,715.59             | 4,647.69              | 67.90                   | 69.445            |                    |         |
| 10,500.00                                   | 8,835.00            | 9,137.09            | 7,413.84            | 47.39           | 37.87       | -0.77                 | 1,069.45                          | 5,992.69   | 4,619.97             | 4,552.11              | 67.86                   | 68.084            |                    |         |
| 10,600.00                                   | 8,835.00            | 9,138.02            | 7,413.86            | 48.91           | 37.88       | -0.73                 | 1,068.51                          | 5,992.70   | 4,524.53             | 4,456.72              | 67.81                   | 66.724            |                    |         |
| 10,700.00                                   | 8,835.00            | 9,138.98            | 7,413.88            | 50.47           | 37.90       | -0.69                 | 1,067.56                          | 5,992.72   | 4,429.30             | 4,361.54              | 67.76                   | 65.366            |                    |         |
| 10,800.00                                   | 8,835.00            | 9,139.96            | 7,413.90            | 52.06           | 37.91       | -0.65                 | 1,066.58                          | 5,992.73   | 4,334.28             | 4,266.57              | 67.71                   | 64.010            |                    |         |
| 10,900.00                                   | 8,835.00            | 9,140.97            | 7,413.91            | 53.68           | 37.93       | -0.61                 | 1,065.57                          | 5,992.75   | 4,239.49             | 4,171.82              | 67.66                   | 62.657            |                    |         |
| 11,000.00                                   | 8,835.00            | 9,142.01            | 7,413.93            | 55.32           | 37.95       | -0.56                 | 1,064.53                          | 5,992.77   | 4,144.94             | 4,077.33              | 67.61                   | 61.305            |                    |         |
| 11,100.00                                   | 8,835.00            | 9,143.07            | 7,413.95            | 57.00           | 37.97       | -0.52                 | 1,063.47                          | 5,992.78   | 4,050.65             | 3,983.09              | 67.56                   | 59.955            |                    |         |
| 11,200.00                                   | 8,835.00            | 9,144.17            | 7,413.98            | 58.70           | 37.98       | -0.47                 | 1,062.37                          | 5,992.80   | 3,956.65             | 3,889.14              | 67.51                   | 58.609            |                    |         |
| 11,300.00                                   | 8,835.00            | 9,145.29            | 7,414.00            | 60.41           | 38.00       | -0.43                 | 1,061.25                          | 5,992.82   | 3,862.95             | 3,795.49              | 67.46                   | 57.265            |                    |         |
| 11,400.00                                   | 8,835.00            | 9,146.45            | 7,414.02            | 62.15           | 38.02       | -0.38                 | 1,060.09                          | 5,992.84   | 3,769.56             | 3,702.16              | 67.41                   | 55.924            |                    |         |
| 11,500.00                                   | 8,835.00            | 9,147.64            | 7,414.05            | 63.91           | 38.04       | -0.33                 | 1,058.90                          | 5,992.86   | 3,676.53             | 3,609.18              | 67.35                   | 54.586            |                    |         |
| 11,600.00                                   | 8,835.00            | 9,148.87            | 7,414.07            | 65.69           | 38.06       | -0.28                 | 1,057.67                          | 5,992.88   | 3,583.87             | 3,516.57              | 67.30                   | 53.252            |                    |         |
| 11,700.00                                   | 8,835.00            | 9,150.13            | 7,414.10            | 67.47           | 38.08       | -0.22                 | 1,056.41                          | 5,992.90   | 3,491.62             | 3,424.37              | 67.25                   | 51.922            |                    |         |
| 11,800.00                                   | 8,835.00            | 9,151.43            | 7,414.13            | 69.28           | 38.10       | -0.17                 | 1,055.11                          | 5,992.92   | 3,399.80             | 3,332.61              | 67.20                   | 50.596            |                    |         |
| 11,900.00                                   | 8,835.00            | 9,152.78            | 7,414.16            | 71.09           | 38.13       | -0.11                 | 1,053.77                          | 5,992.95   | 3,308.46             | 3,241.32              | 67.14                   | 49.275            |                    |         |
| 12,000.00                                   | 8,835.00            | 9,154.16            | 7,414.19            | 72.92           | 38.15       | -0.05                 | 1,052.38                          | 5,992.97   | 3,217.63             | 3,150.54              | 67.09                   | 47.958            |                    |         |
| 12,100.00                                   | 8,835.00            | 9,155.59            | 7,414.23            | 74.76           | 38.17       | 0.01                  | 1,050.96                          | 5,993.00   | 3,127.37             | 3,060.32              | 67.04                   | 46.647            |                    |         |
| 12,200.00                                   | 8,835.00            | 9,157.06            | 7,414.26            | 76.61           | 38.20       | 0.07                  | 1,049.48                          | 5,993.02   | 3,037.71             | 2,970.71              | 67.00                   | 45.342            |                    |         |
| 12,300.00                                   | 8,835.00            | 9,158.58            | 7,414.30            | 78.47           | 38.22       | 0.13                  | 1,047.96                          | 5,993.05   | 2,948.71             | 2,881.76              | 66.95                   | 44.043            |                    |         |
| 12,400.00                                   | 8,835.00            | 9,160.16            | 7,414.34            | 80.34           | 38.25       | 0.20                  | 1,046.39                          | 5,993.08   | 2,860.44             | 2,793.54              | 66.91                   | 42.752            |                    |         |
| 12,500.00                                   | 8,835.00            | 9,161.78            | 7,414.39            | 82.22           | 38.27       | 0.27                  | 1,044.76                          | 5,993.11   | 2,772.97             | 2,706.10              | 66.87                   | 41.469            |                    |         |
| 12,600.00                                   | 8,835.00            | 9,163.47            | 7,414.43            | 84.11           | 38.30       | 0.34                  | 1,043.08                          | 5,993.14   | 2,686.37             | 2,619.54              | 66.84                   | 40.194            |                    |         |
| 12,700.00                                   | 8,835.00            | 9,165.21            | 7,414.48            | 86.00           | 38.33       | 0.41                  | 1,041.34                          | 5,993.17   | 2,600.74             | 2,533.93              | 66.81                   | 38.929            |                    |         |
| 12,800.00                                   | 8,835.00            | 9,167.01            | 7,414.53            | 87.90           | 38.36       | 0.48                  | 1,039.54                          | 5,993.21   | 2,516.16             | 2,449.37              | 66.79                   | 37.675            |                    |         |
| 12,900.00                                   | 8,835.00            | 9,168.89            | 7,414.59            | 89.81           | 38.39       | 0.56                  | 1,037.67                          | 5,993.24   | 2,432.75             | 2,365.98              | 66.77                   | 36.433            |                    |         |
| 13,000.00                                   | 8,835.00            | 9,170.83            | 7,414.65            | 91.72           | 38.42       | 0.64                  | 1,035.73                          | 5,993.28   | 2,350.63             | 2,283.86              | 66.77                   | 35.205            |                    |         |
| 13,100.00                                   | 8,835.00            | 9,172.84            | 7,414.71            | 93.64           | 38.45       | 0.73                  | 1,033.72                          | 5,993.32   | 2,269.95             | 2,203.18              | 66.78                   | 33.993            |                    |         |
| 13,200.00                                   | 8,835.00            | 9,174.93            | 7,414.78            | 95.56           | 38.49       | 0.82                  | 1,031.63                          | 5,993.36   | 2,190.86             | 2,124.07              | 66.80                   | 32.799            |                    |         |
| 13,300.00                                   | 8,835.00            | 9,177.10            | 7,414.85            | 97.49           | 38.53       | 0.91                  | 1,029.45                          | 5,993.41   | 2,113.55             | 2,046.72              | 66.83                   | 31.626            |                    |         |
| 13,400.00                                   | 8,835.00            | 9,179.36            | 7,414.92            | 99.42           | 38.56       | 1.00                  | 1,027.20                          | 5,993.45   | 2,038.20             | 1,971.32              | 66.88                   | 30.477            |                    |         |
| 13,500.00                                   | 8,835.00            | 9,181.72            | 7,415.01            | 101.36          | 38.60       | 1.10                  | 1,024.84                          | 5,993.50   | 1,965.06             | 1,898.11              | 66.94                   | 29.355            |                    |         |
| 13,600.00                                   | 8,835.00            | 9,184.17            | 7,415.09            | 103.30          | 38.64       | 1.20                  | 1,022.40                          | 5,993.56   | 1,894.36             | 1,827.34              | 67.02                   | 28.265            |                    |         |
| 13,700.00                                   | 8,835.00            | 9,186.72            | 7,415.19            | 105.25          | 38.68       | 1.31                  | 1,019.84                          | 5,993.61   | 1,826.41             | 1,759.29              | 67.12                   | 27.211            |                    |         |
| 13,800.00                                   | 8,835.00            | 9,189.39            | 7,415.29            | 107.20          | 38.73       | 1.42                  | 1,017.18                          | 5,993.67   | 1,761.52             | 1,694.28              | 67.24                   | 26.199            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|---------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 106-MWD+IGRF, 2746-MWD+IGRF |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.00 ft |
| Reference                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 13,900.00                                   | 8,835.00            | 9,192.18            | 7,415.39            | 109.15          | 38.77       | 1.54                  | 1,014.39                          | 5,993.73   | 1,700.03             | 1,632.66              | 67.37                   | 25.234            |                    |         |
| 14,000.00                                   | 8,835.00            | 9,195.09            | 7,415.51            | 111.10          | 38.82       | 1.66                  | 1,011.48                          | 5,993.80   | 1,642.32             | 1,574.80              | 67.52                   | 24.323            |                    |         |
| 14,100.00                                   | 8,835.00            | 9,198.14            | 7,415.63            | 113.06          | 38.87       | 1.79                  | 1,008.44                          | 5,993.87   | 1,588.82             | 1,521.13              | 67.69                   | 23.473            |                    |         |
| 14,200.00                                   | 8,835.00            | 9,201.34            | 7,415.77            | 115.03          | 38.92       | 1.93                  | 1,005.24                          | 5,993.94   | 1,539.96             | 1,472.08              | 67.88                   | 22.688            |                    |         |
| 14,300.00                                   | 8,835.00            | 9,204.69            | 7,415.92            | 116.99          | 38.98       | 2.07                  | 1,001.90                          | 5,994.02   | 1,496.19             | 1,428.10              | 68.09                   | 21.974            |                    |         |
| 14,400.00                                   | 8,835.00            | 9,208.21            | 7,416.07            | 118.96          | 39.04       | 2.21                  | 998.38                            | 5,994.11   | 1,457.97             | 1,389.63              | 68.34                   | 21.334            |                    |         |
| 14,500.00                                   | 8,835.00            | 9,211.91            | 7,416.25            | 120.93          | 39.10       | 2.37                  | 994.69                            | 5,994.20   | 1,425.74             | 1,357.10              | 68.64                   | 20.770            |                    |         |
| 14,600.00                                   | 8,835.00            | 9,215.81            | 7,416.43            | 122.90          | 39.16       | 2.53                  | 990.80                            | 5,994.30   | 1,399.93             | 1,330.90              | 69.03                   | 20.280            |                    |         |
| 14,700.00                                   | 8,835.00            | 9,219.91            | 7,416.64            | 124.88          | 39.23       | 2.71                  | 986.69                            | 5,994.41   | 1,380.89             | 1,311.36              | 69.53                   | 19.861            |                    |         |
| 14,800.00                                   | 8,835.00            | 14,800.00           | 7,415.49            | 126.86          | 131.48      | 1.38                  | 1,018.30                          | 5,993.73   | 1,368.88             | 1,263.30              | 105.58                  | 12.966            |                    |         |
| 14,900.00                                   | 8,835.00            | 14,900.00           | 7,415.52            | 128.84          | 133.14      | 1.43                  | 1,017.10                          | 5,993.75   | 1,364.18             | 1,257.93              | 106.25                  | 12.840            |                    |         |
| 14,914.32                                   | 8,835.00            | 14,914.32           | 7,415.53            | 129.12          | 133.37      | 1.44                  | 1,016.92                          | 5,993.75   | 1,364.10             | 1,257.65              | 106.45                  | 12.815 CC, ES     |                    |         |
| 15,000.00                                   | 8,835.00            | 15,000.00           | 7,415.55            | 130.82          | 134.79      | 1.48                  | 1,015.90                          | 5,993.77   | 1,366.79             | 1,258.60              | 108.19                  | 12.634 SF         |                    |         |
| 15,100.00                                   | 8,835.00            | 9,216.14            | 7,416.41            | 132.80          | 39.17       | 2.55                  | 990.46                            | 5,994.29   | 1,376.67             | 1,303.73              | 72.94                   | 18.875            |                    |         |
| 15,200.00                                   | 8,835.00            | 9,217.45            | 7,416.46            | 134.79          | 39.19       | 2.60                  | 989.15                            | 5,994.32   | 1,393.65             | 1,319.53              | 74.12                   | 18.802            |                    |         |
| 15,300.00                                   | 8,835.00            | 9,218.73            | 7,416.52            | 136.78          | 39.21       | 2.66                  | 987.87                            | 5,994.35   | 1,417.51             | 1,342.16              | 75.34                   | 18.814            |                    |         |
| 15,400.00                                   | 8,835.00            | 9,219.98            | 7,416.57            | 138.76          | 39.23       | 2.71                  | 986.62                            | 5,994.37   | 1,447.89             | 1,371.34              | 76.54                   | 18.916            |                    |         |
| 15,500.00                                   | 8,835.00            | 9,221.21            | 7,416.62            | 140.76          | 39.25       | 2.76                  | 985.40                            | 5,994.40   | 1,484.39             | 1,406.72              | 77.67                   | 19.111            |                    |         |
| 15,600.00                                   | 8,835.00            | 9,222.40            | 7,416.67            | 142.75          | 39.27       | 2.81                  | 984.21                            | 5,994.43   | 1,526.59             | 1,447.88              | 78.70                   | 19.397            |                    |         |
| 15,700.00                                   | 8,835.00            | 9,223.56            | 7,416.72            | 144.74          | 39.29       | 2.86                  | 983.04                            | 5,994.45   | 1,574.01             | 1,494.39              | 79.61                   | 19.771            |                    |         |
| 15,800.00                                   | 8,835.00            | 9,224.70            | 7,416.76            | 146.74          | 39.31       | 2.91                  | 981.91                            | 5,994.47   | 1,626.20             | 1,545.80              | 80.40                   | 20.226            |                    |         |
| 15,900.00                                   | 8,835.00            | 9,225.81            | 7,416.81            | 148.73          | 39.33       | 2.95                  | 980.80                            | 5,994.50   | 1,682.73             | 1,601.65              | 81.07                   | 20.755            |                    |         |
| 16,000.00                                   | 8,835.00            | 9,226.90            | 7,416.85            | 150.73          | 39.35       | 3.00                  | 979.71                            | 5,994.52   | 1,743.16             | 1,661.52              | 81.63                   | 21.354            |                    |         |
| 16,100.00                                   | 8,835.00            | 9,227.96            | 7,416.90            | 152.73          | 39.37       | 3.04                  | 978.65                            | 5,994.54   | 1,807.10             | 1,725.01              | 82.09                   | 22.013            |                    |         |
| 16,200.00                                   | 8,835.00            | 9,229.00            | 7,416.94            | 154.73          | 39.38       | 3.09                  | 977.61                            | 5,994.56   | 1,874.20             | 1,791.74              | 82.46                   | 22.728            |                    |         |
| 16,300.00                                   | 8,835.00            | 9,230.02            | 7,416.98            | 156.73          | 39.40       | 3.13                  | 976.59                            | 5,994.58   | 1,944.14             | 1,861.38              | 82.76                   | 23.491            |                    |         |
| 16,400.00                                   | 8,835.00            | 9,231.02            | 7,417.02            | 158.74          | 39.42       | 3.17                  | 975.60                            | 5,994.60   | 2,016.60             | 1,933.61              | 82.99                   | 24.299            |                    |         |
| 16,500.00                                   | 8,835.00            | 9,231.99            | 7,417.06            | 160.74          | 39.43       | 3.21                  | 974.62                            | 5,994.62   | 2,091.34             | 2,008.17              | 83.17                   | 25.145            |                    |         |
| 16,600.00                                   | 8,835.00            | 9,232.95            | 7,417.10            | 162.74          | 39.45       | 3.25                  | 973.67                            | 5,994.64   | 2,168.11             | 2,084.81              | 83.30                   | 26.027            |                    |         |
| 16,700.00                                   | 8,835.00            | 9,233.88            | 7,417.14            | 164.75          | 39.47       | 3.29                  | 972.74                            | 5,994.66   | 2,246.71             | 2,163.31              | 83.40                   | 26.938            |                    |         |
| 16,800.00                                   | 8,835.00            | 9,234.80            | 7,417.17            | 166.76          | 39.48       | 3.33                  | 971.82                            | 5,994.68   | 2,326.96             | 2,243.48              | 83.47                   | 27.878            |                    |         |
| 16,900.00                                   | 8,835.00            | 9,235.69            | 7,417.21            | 168.77          | 39.50       | 3.37                  | 970.93                            | 5,994.69   | 2,408.68             | 2,325.16              | 83.52                   | 28.841            |                    |         |
| 17,000.00                                   | 8,835.00            | 9,236.57            | 7,417.24            | 170.77          | 39.51       | 3.41                  | 970.05                            | 5,994.71   | 2,491.73             | 2,408.19              | 83.54                   | 29.826            |                    |         |
| 17,100.00                                   | 8,835.00            | 9,237.43            | 7,417.28            | 172.78          | 39.52       | 3.44                  | 969.19                            | 5,994.73   | 2,575.99             | 2,492.44              | 83.55                   | 30.830            |                    |         |
| 17,200.00                                   | 8,835.00            | 9,238.28            | 7,417.31            | 174.79          | 39.54       | 3.48                  | 968.34                            | 5,994.74   | 2,661.34             | 2,577.78              | 83.55                   | 31.851            |                    |         |
| 17,300.00                                   | 8,835.00            | 9,239.11            | 7,417.34            | 176.81          | 39.55       | 3.51                  | 967.52                            | 5,994.76   | 2,747.67             | 2,664.13              | 83.55                   | 32.888            |                    |         |
| 17,400.00                                   | 8,835.00            | 9,239.92            | 7,417.37            | 178.82          | 39.57       | 3.55                  | 966.71                            | 5,994.77   | 2,834.91             | 2,751.38              | 83.53                   | 33.938            |                    |         |
| 17,500.00                                   | 8,835.00            | 9,240.71            | 7,417.40            | 180.83          | 39.58       | 3.58                  | 965.91                            | 5,994.79   | 2,922.96             | 2,839.45              | 83.51                   | 35.000            |                    |         |
| 17,600.00                                   | 8,835.00            | 9,241.49            | 7,417.43            | 182.84          | 39.59       | 3.61                  | 965.13                            | 5,994.80   | 3,011.76             | 2,928.27              | 83.49                   | 36.072            |                    |         |
| 17,700.00                                   | 8,835.00            | 9,242.26            | 7,417.46            | 184.86          | 39.60       | 3.64                  | 964.36                            | 5,994.82   | 3,101.24             | 3,017.77              | 83.47                   | 37.154            |                    |         |
| 17,800.00                                   | 8,835.00            | 9,243.01            | 7,417.49            | 186.87          | 39.62       | 3.68                  | 963.61                            | 5,994.83   | 3,191.34             | 3,107.90              | 83.45                   | 38.244            |                    |         |
| 17,900.00                                   | 8,835.00            | 9,243.75            | 7,417.52            | 188.89          | 39.63       | 3.71                  | 962.88                            | 5,994.84   | 3,282.02             | 3,198.60              | 83.42                   | 39.342            |                    |         |
| 18,000.00                                   | 8,835.00            | 9,244.48            | 7,417.55            | 190.91          | 39.64       | 3.74                  | 962.15                            | 5,994.86   | 3,373.22             | 3,289.82              | 83.40                   | 40.446            |                    |         |
| 18,100.00                                   | 8,835.00            | 9,245.19            | 7,417.58            | 192.92          | 39.65       | 3.77                  | 961.44                            | 5,994.87   | 3,464.91             | 3,381.53              | 83.38                   | 41.557            |                    |         |
| 18,200.00                                   | 8,835.00            | 9,245.89            | 7,417.60            | 194.94          | 39.67       | 3.80                  | 960.74                            | 5,994.88   | 3,557.05             | 3,473.69              | 83.36                   | 42.672            |                    |         |
| 18,300.00                                   | 8,835.00            | 9,246.57            | 7,417.63            | 196.96          | 39.68       | 3.83                  | 960.06                            | 5,994.89   | 3,649.60             | 3,566.26              | 83.34                   | 43.791            |                    |         |
| 18,400.00                                   | 8,835.00            | 9,247.25            | 7,417.65            | 198.98          | 39.69       | 3.85                  | 959.38                            | 5,994.91   | 3,742.53             | 3,659.21              | 83.32                   | 44.915            |                    |         |
| 18,500.00                                   | 8,835.00            | 9,247.91            | 7,417.68            | 201.00          | 39.70       | 3.88                  | 958.72                            | 5,994.92   | 3,835.82             | 3,752.51              | 83.31                   | 46.042            |                    |         |
| 18,600.00                                   | 8,835.00            | 9,248.56            | 7,417.70            | 203.02          | 39.71       | 3.91                  | 958.07                            | 5,994.93   | 3,929.44             | 3,846.14              | 83.30                   | 47.171            |                    |         |
| 18,700.00                                   | 8,835.00            | 9,249.20            | 7,417.73            | 205.04          | 39.72       | 3.94                  | 957.43                            | 5,994.94   | 4,023.36             | 3,940.07              | 83.29                   | 48.304            |                    |         |
| 18,800.00                                   | 8,835.00            | 9,249.83            | 7,417.75            | 207.06          | 39.73       | 3.96                  | 956.80                            | 5,994.95   | 4,117.57             | 4,034.29              | 83.29                   | 49.438            |                    |         |
| 18,900.00                                   | 8,835.00            | 9,250.45            | 7,417.77            | 209.08          | 39.74       | 3.99                  | 956.18                            | 5,994.96   | 4,212.05             | 4,128.77              | 83.29                   | 50.574            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw 13 State 15H - Original Hole - Actuals |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 5.00 ft |
|-----------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|---------|
| Survey Program: 106-MWD+IGRF, 2746-MWD+IGRF                                                   |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 0.00 ft |
| Reference                                                                                     |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                           | Warning |
| Measured Depth<br>(ft)                                                                        | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |         |
| 19,000.00                                                                                     | 8,835.00               | 9,251.06               | 7,417.80               | 211.10            | 39.75          | 4.01                        | 955.58                                  | 5,994.97      | 4,306.78                   | 4,223.49                    | 83.29                         | 51.711                    |         |
| 19,100.00                                                                                     | 8,835.00               | 9,251.65               | 7,417.82               | 213.12            | 39.76          | 4.04                        | 954.98                                  | 5,994.98      | 4,401.74                   | 4,318.45                    | 83.29                         | 52.849                    |         |
| 19,200.00                                                                                     | 8,835.00               | 9,252.24               | 7,417.84               | 215.15            | 39.77          | 4.06                        | 954.39                                  | 5,994.99      | 4,496.92                   | 4,413.62                    | 83.29                         | 53.989                    |         |
| 19,308.27                                                                                     | 8,835.00               | 9,252.87               | 7,417.86               | 217.34            | 39.78          | 4.09                        | 953.77                                  | 5,995.00      | 4,600.20                   | 4,516.90                    | 83.30                         | 55.222                    |         |



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 18-GYRO-NS-CT |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                          | 0.00                | 0.00                | 0.00                | 0.50            | 5.02        | 61.82                 | 3,098.47                          | 5,783.09   | 6,561.16             |                       |                         |                   |                    |         |
| 100.00                        | 100.00              | 9.67                | 9.67                | 0.52            | 5.02        | 61.82                 | 3,098.48                          | 5,783.10   | 6,560.91             | 6,555.37              | 5.54                    | 1,183.697         |                    |         |
| 200.00                        | 200.00              | 83.56               | 83.56               | 0.70            | 5.03        | 61.82                 | 3,098.88                          | 5,783.50   | 6,561.60             | 6,555.87              | 5.73                    | 1,145.501         |                    |         |
| 300.00                        | 300.00              | 189.18              | 189.17              | 0.99            | 5.04        | 61.82                 | 3,099.08                          | 5,784.32   | 6,562.37             | 6,556.35              | 6.03                    | 1,088.339         |                    |         |
| 400.00                        | 400.00              | 288.98              | 288.98              | 1.31            | 5.08        | 61.82                 | 3,098.99                          | 5,785.15   | 6,563.07             | 6,556.67              | 6.39                    | 1,026.684         |                    |         |
| 500.00                        | 500.00              | 386.93              | 386.92              | 1.65            | 5.15        | 61.83                 | 3,099.00                          | 5,785.95   | 6,563.79             | 6,556.99              | 6.79                    | 966.316           |                    |         |
| 600.00                        | 600.00              | 491.69              | 491.68              | 1.99            | 5.24        | 61.83                 | 3,098.98                          | 5,786.79   | 6,564.49             | 6,557.26              | 7.23                    | 908.113           |                    |         |
| 700.00                        | 700.00              | 596.24              | 596.22              | 2.34            | 5.35        | 61.83                 | 3,098.78                          | 5,787.62   | 6,565.10             | 6,557.41              | 7.69                    | 853.455           |                    |         |
| 800.00                        | 800.00              | 740.90              | 740.88              | 2.69            | 5.55        | 61.83                 | 3,099.49                          | 5,788.04   | 6,565.69             | 6,557.45              | 8.24                    | 796.975           |                    |         |
| 900.00                        | 900.00              | 883.72              | 883.69              | 3.04            | 5.78        | 61.83                 | 3,099.34                          | 5,787.08   | 6,564.95             | 6,556.13              | 8.82                    | 744.428           |                    |         |
| 1,000.00                      | 1,000.00            | 953.30              | 953.27              | 3.40            | 5.90        | 61.83                 | 3,098.70                          | 5,787.16   | 6,564.56             | 6,555.26              | 9.30                    | 706.144           |                    |         |
| 1,018.08                      | 1,018.08            | 953.30              | 953.27              | 3.46            | 5.90        | 61.83                 | 3,098.70                          | 5,787.16   | 6,564.53             | 6,555.17              | 9.36                    | 701.299           |                    |         |
| 1,100.00                      | 1,100.00            | 1,029.12            | 1,029.09            | 3.75            | 6.04        | 61.84                 | 3,098.01                          | 5,787.59   | 6,564.59             | 6,554.80              | 9.79                    | 670.234           |                    |         |
| 1,200.00                      | 1,200.00            | 1,129.89            | 1,129.85            | 4.11            | 6.24        | 61.85                 | 3,097.46                          | 5,787.99   | 6,564.69             | 6,554.33              | 10.35                   | 634.124           |                    |         |
| 1,300.00                      | 1,300.00            | 1,225.37            | 1,225.33            | 4.46            | 6.45        | 61.85                 | 3,097.19                          | 5,788.25   | 6,564.80             | 6,553.88              | 10.91                   | 601.617           |                    |         |
| 1,400.00                      | 1,400.00            | 1,321.64            | 1,321.60            | 4.82            | 6.67        | 61.85                 | 3,097.00                          | 5,788.55   | 6,564.98             | 6,553.49              | 11.48                   | 571.652           |                    |         |
| 1,500.00                      | 1,500.00            | 1,420.59            | 1,420.55            | 5.18            | 6.90        | 61.86                 | 3,096.78                          | 5,788.91   | 6,565.19             | 6,553.12              | 12.07                   | 543.792           |                    |         |
| 1,600.00                      | 1,600.00            | 1,527.00            | 1,526.96            | 5.53            | 7.16        | 61.86                 | 3,096.33                          | 5,789.37   | 6,565.38             | 6,552.69              | 12.69                   | 517.379           |                    |         |
| 1,700.00                      | 1,700.00            | 1,645.52            | 1,645.48            | 5.89            | 7.46        | 61.87                 | 3,095.68                          | 5,789.69   | 6,565.35             | 6,552.01              | 13.35                   | 491.901           |                    |         |
| 1,800.00                      | 1,800.00            | 1,761.51            | 1,761.46            | 6.25            | 7.76        | 61.87                 | 3,095.09                          | 5,789.65   | 6,565.08             | 6,551.07              | 14.01                   | 468.690           |                    |         |
| 1,900.00                      | 1,900.00            | 1,861.65            | 1,861.60            | 6.61            | 8.03        | 61.87                 | 3,094.84                          | 5,789.28   | 6,564.64             | 6,550.01              | 14.63                   | 448.605           |                    |         |
| 2,000.00                      | 2,000.00            | 1,961.72            | 1,961.67            | 6.96            | 8.31        | 61.87                 | 3,094.89                          | 5,788.82   | 6,564.25             | 6,548.99              | 15.27                   | 430.001           |                    |         |
| 2,100.00                      | 2,099.99            | 2,066.48            | 2,066.43            | 7.32            | 8.60        | 74.66                 | 3,094.99                          | 5,788.24   | 6,563.59             | 6,547.67              | 15.92                   | 412.381           |                    |         |
| 2,200.00                      | 2,199.96            | 2,172.84            | 2,172.79            | 7.68            | 8.90        | 74.69                 | 3,095.11                          | 5,787.55   | 6,562.37             | 6,545.79              | 16.58                   | 395.883           |                    |         |
| 2,300.00                      | 2,299.86            | 2,273.33            | 2,273.27            | 8.04            | 9.19        | 74.74                 | 3,095.32                          | 5,786.77   | 6,560.64             | 6,543.41              | 17.22                   | 380.888           |                    |         |
| 2,400.00                      | 2,399.68            | 2,366.26            | 2,366.20            | 8.39            | 9.47        | 74.80                 | 3,095.58                          | 5,786.07   | 6,558.50             | 6,540.64              | 17.85                   | 367.337           |                    |         |
| 2,500.00                      | 2,499.37            | 2,455.94            | 2,455.87            | 8.75            | 9.73        | 74.88                 | 3,095.88                          | 5,785.51   | 6,556.04             | 6,537.57              | 18.48                   | 354.820           |                    |         |
| 2,600.00                      | 2,598.90            | 2,563.11            | 2,563.05            | 9.11            | 10.06       | 74.99                 | 3,096.11                          | 5,784.92   | 6,553.15             | 6,533.99              | 19.16                   | 342.103           |                    |         |
| 2,700.00                      | 2,698.26            | 2,664.76            | 2,664.70            | 9.46            | 10.37       | 75.12                 | 3,096.11                          | 5,784.39   | 6,549.75             | 6,529.93              | 19.82                   | 330.451           |                    |         |
| 2,800.00                      | 2,797.40            | 2,764.23            | 2,764.16            | 9.82            | 10.67       | 75.26                 | 3,096.22                          | 5,783.77   | 6,545.89             | 6,525.41              | 20.48                   | 319.582           |                    |         |
| 2,900.00                      | 2,896.30            | 2,874.75            | 2,874.68            | 10.18           | 11.01       | 75.44                 | 3,096.65                          | 5,782.94   | 6,541.63             | 6,520.44              | 21.18                   | 308.825           |                    |         |
| 3,000.00                      | 2,994.93            | 3,020.25            | 3,020.17            | 10.54           | 11.47       | 75.69                 | 3,096.73                          | 5,781.23   | 6,536.43             | 6,514.43              | 21.99                   | 297.191           |                    |         |
| 3,100.00                      | 3,093.26            | 3,099.97            | 3,099.88            | 10.90           | 11.72       | 75.86                 | 3,096.46                          | 5,780.29   | 6,530.66             | 6,508.05              | 22.61                   | 288.895           |                    |         |
| 3,195.07                      | 3,186.42            | 3,176.08            | 3,175.99            | 11.24           | 11.96       | 76.05                 | 3,096.11                          | 5,779.64   | 6,525.04             | 6,501.85              | 23.19                   | 281.366           |                    |         |
| 3,200.00                      | 3,191.25            | 3,180.01            | 3,179.92            | 11.26           | 11.97       | 76.06                 | 3,096.10                          | 5,779.62   | 6,524.75             | 6,501.53              | 23.22                   | 280.985           |                    |         |
| 3,300.00                      | 3,289.08            | 3,256.76            | 3,256.67            | 11.62           | 12.22       | 76.19                 | 3,095.94                          | 5,779.12   | 6,519.01             | 6,495.18              | 23.83                   | 273.575           |                    |         |
| 3,400.00                      | 3,386.91            | 3,319.33            | 3,319.23            | 11.98           | 12.42       | 76.30                 | 3,096.28                          | 5,778.74   | 6,513.70             | 6,489.31              | 24.39                   | 267.015           |                    |         |
| 3,500.00                      | 3,484.74            | 3,385.60            | 3,385.50            | 12.35           | 12.63       | 76.41                 | 3,096.85                          | 5,778.83   | 6,509.16             | 6,484.18              | 24.97                   | 260.641           |                    |         |
| 3,600.00                      | 3,582.58            | 3,471.50            | 3,471.39            | 12.72           | 12.90       | 76.56                 | 3,097.55                          | 5,779.30   | 6,505.04             | 6,479.43              | 25.62                   | 253.931           |                    |         |
| 3,700.00                      | 3,680.41            | 3,592.98            | 3,592.87            | 13.09           | 13.29       | 76.77                 | 3,098.07                          | 5,779.73   | 6,500.68             | 6,474.30              | 26.38                   | 246.440           |                    |         |
| 3,800.00                      | 3,778.24            | 3,693.37            | 3,693.26            | 13.46           | 13.62       | 76.95                 | 3,098.31                          | 5,779.98   | 6,496.21             | 6,469.14              | 27.07                   | 239.940           |                    |         |
| 3,900.00                      | 3,876.08            | 3,794.56            | 3,794.45            | 13.83           | 13.95       | 77.13                 | 3,098.50                          | 5,780.21   | 6,491.77             | 6,463.99              | 27.78                   | 233.723           |                    |         |
| 4,000.00                      | 3,973.91            | 3,900.92            | 3,900.81            | 14.21           | 14.30       | 77.32                 | 3,098.79                          | 5,780.32   | 6,487.30             | 6,458.80              | 28.50                   | 227.659           |                    |         |
| 4,100.00                      | 4,071.74            | 4,005.16            | 4,005.05            | 14.58           | 14.64       | 77.50                 | 3,099.10                          | 5,780.24   | 6,482.75             | 6,453.54              | 29.21                   | 221.925           |                    |         |
| 4,200.00                      | 4,169.57            | 4,107.60            | 4,107.49            | 14.96           | 14.97       | 77.68                 | 3,099.46                          | 5,780.07   | 6,478.21             | 6,448.29              | 29.92                   | 216.493           |                    |         |
| 4,300.00                      | 4,267.41            | 4,211.13            | 4,211.02            | 15.33           | 15.31       | 77.86                 | 3,099.84                          | 5,779.79   | 6,473.64             | 6,443.00              | 30.64                   | 211.276           |                    |         |
| 4,400.00                      | 4,365.24            | 4,316.71            | 4,316.61            | 15.71           | 15.66       | 78.05                 | 3,100.17                          | 5,779.41   | 6,469.04             | 6,437.67              | 31.37                   | 206.240           |                    |         |
| 4,500.00                      | 4,463.07            | 4,442.93            | 4,442.82            | 16.09           | 16.08       | 78.27                 | 3,100.34                          | 5,778.68   | 6,464.22             | 6,432.06              | 32.16                   | 200.995           |                    |         |
| 4,600.00                      | 4,560.90            | 4,555.46            | 4,555.34            | 16.47           | 16.45       | 78.47                 | 3,100.09                          | 5,777.76   | 6,459.10             | 6,426.19              | 32.91                   | 196.250           |                    |         |
| 4,700.00                      | 4,658.74            | 4,652.44            | 4,652.32            | 16.85           | 16.78       | 78.64                 | 3,100.04                          | 5,776.79   | 6,453.96             | 6,420.35              | 33.62                   | 191.996           |                    |         |
| 4,800.00                      | 4,756.57            | 4,742.67            | 4,742.54            | 17.23           | 17.08       | 78.80                 | 3,100.29                          | 5,775.83   | 6,448.95             | 6,414.65              | 34.30                   | 188.033           |                    |         |
| 4,900.00                      | 4,854.40            | 4,830.31            | 4,830.18            | 17.61           | 17.37       | 78.95                 | 3,100.65                          | 5,774.98   | 6,444.15             | 6,409.18              | 34.97                   | 184.269           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 18-GYRO-NS-CT |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,000.00                      | 4,952.23            | 4,906.56            | 4,906.43            | 17.99           | 17.63       | 79.09                 | 3,101.02                          | 5,774.38   | 6,439.60             | 6,403.99              | 35.61                   | 180.840           |                    |         |
| 5,100.00                      | 5,050.07            | 4,975.95            | 4,975.82            | 18.37           | 17.86       | 79.21                 | 3,101.44                          | 5,774.23   | 6,435.63             | 6,399.40              | 36.22                   | 177.657           |                    |         |
| 5,200.00                      | 5,147.90            | 5,058.30            | 5,058.16            | 18.75           | 18.14       | 79.36                 | 3,101.77                          | 5,774.44   | 6,432.07             | 6,395.18              | 36.88                   | 174.389           |                    |         |
| 5,300.00                      | 5,245.73            | 5,142.83            | 5,142.69            | 19.14           | 18.42       | 79.51                 | 3,101.78                          | 5,774.87   | 6,428.68             | 6,391.13              | 37.55                   | 171.203           |                    |         |
| 5,400.00                      | 5,343.56            | 5,230.53            | 5,230.39            | 19.52           | 18.71       | 79.67                 | 3,101.64                          | 5,775.59   | 6,425.56             | 6,387.33              | 38.23                   | 168.085           |                    |         |
| 5,500.00                      | 5,441.40            | 5,322.97            | 5,322.82            | 19.90           | 19.03       | 79.85                 | 3,101.46                          | 5,776.47   | 6,422.62             | 6,383.69              | 38.92                   | 165.011           |                    |         |
| 5,600.00                      | 5,539.23            | 5,449.90            | 5,449.76            | 20.29           | 19.45       | 80.08                 | 3,101.93                          | 5,777.19   | 6,419.63             | 6,379.89              | 39.73                   | 161.568           |                    |         |
| 5,700.00                      | 5,637.06            | 5,572.34            | 5,572.19            | 20.67           | 19.87       | 80.29                 | 3,102.58                          | 5,777.19   | 6,416.23             | 6,375.70              | 40.53                   | 158.309           |                    |         |
| 5,800.00                      | 5,734.90            | 5,677.03            | 5,676.88            | 21.05           | 20.22       | 80.48                 | 3,103.00                          | 5,776.87   | 6,412.57             | 6,371.30              | 41.27                   | 155.389           |                    |         |
| 5,900.00                      | 5,832.73            | 5,765.21            | 5,765.06            | 21.44           | 20.52       | 80.64                 | 3,103.34                          | 5,776.71   | 6,409.08             | 6,367.12              | 41.95                   | 152.773           |                    |         |
| 6,000.00                      | 5,930.56            | 5,855.74            | 5,855.59            | 21.83           | 20.83       | 80.80                 | 3,103.63                          | 5,776.69   | 6,405.77             | 6,363.13              | 42.64                   | 150.216           |                    |         |
| 6,100.00                      | 6,028.39            | 5,955.74            | 5,955.58            | 22.21           | 21.17       | 80.98                 | 3,103.72                          | 5,776.86   | 6,402.61             | 6,359.24              | 43.37                   | 147.634           |                    |         |
| 6,200.00                      | 6,126.23            | 6,063.18            | 6,063.03            | 22.60           | 21.53       | 81.18                 | 3,103.50                          | 5,776.98   | 6,399.36             | 6,355.24              | 44.12                   | 145.051           |                    |         |
| 6,300.00                      | 6,224.06            | 6,176.38            | 6,176.23            | 22.98           | 21.91       | 81.40                 | 3,102.53                          | 5,777.22   | 6,396.04             | 6,351.15              | 44.89                   | 142.490           |                    |         |
| 6,400.00                      | 6,321.89            | 6,264.49            | 6,264.32            | 23.37           | 22.21       | 81.57                 | 3,101.38                          | 5,777.46   | 6,392.68             | 6,347.11              | 45.57                   | 140.268           |                    |         |
| 6,500.00                      | 6,419.72            | 6,349.44            | 6,349.26            | 23.76           | 22.50       | 81.74                 | 3,100.36                          | 5,777.85   | 6,389.60             | 6,343.35              | 46.25                   | 138.149           |                    |         |
| 6,600.00                      | 6,517.56            | 6,423.26            | 6,423.08            | 24.14           | 22.75       | 81.88                 | 3,099.55                          | 5,778.35   | 6,386.84             | 6,339.95              | 46.89                   | 136.206           |                    |         |
| 6,700.00                      | 6,615.39            | 6,489.76            | 6,489.58            | 24.53           | 22.98       | 82.01                 | 3,098.85                          | 5,779.11   | 6,384.59             | 6,337.09              | 47.51                   | 134.398           |                    |         |
| 6,800.00                      | 6,713.22            | 6,553.37            | 6,553.17            | 24.92           | 23.20       | 82.14                 | 3,098.30                          | 5,780.15   | 6,382.93             | 6,334.82              | 48.11                   | 132.677           |                    |         |
| 6,900.00                      | 6,811.05            | 6,656.30            | 6,656.08            | 25.30           | 23.55       | 82.34                 | 3,097.52                          | 5,782.11   | 6,381.61             | 6,332.77              | 48.85                   | 130.642           |                    |         |
| 7,000.00                      | 6,908.89            | 6,767.84            | 6,767.60            | 25.69           | 23.93       | 82.56                 | 3,096.45                          | 5,784.01   | 6,380.13             | 6,330.51              | 49.62                   | 128.587           |                    |         |
| 7,100.00                      | 7,006.72            | 6,849.37            | 6,849.11            | 26.08           | 24.21       | 82.72                 | 3,095.98                          | 5,785.34   | 6,378.78             | 6,328.49              | 50.28                   | 126.857           |                    |         |
| 7,200.00                      | 7,104.55            | 6,952.96            | 6,952.69            | 26.47           | 24.57       | 82.91                 | 3,096.11                          | 5,786.85   | 6,377.57             | 6,326.55              | 51.03                   | 124.989           |                    |         |
| 7,216.87                      | 7,121.05            | 6,958.73            | 6,958.46            | 26.53           | 24.59       | 82.92                 | 3,096.13                          | 5,786.94   | 6,377.39             | 6,326.28              | 51.11                   | 124.778           |                    |         |
| 7,300.00                      | 7,202.57            | 7,011.30            | 7,011.02            | 26.85           | 24.77       | 83.01                 | 3,096.36                          | 5,787.85   | 6,376.84             | 6,325.24              | 51.61                   | 123.562           |                    |         |
| 7,333.35                      | 7,235.37            | 7,034.05            | 7,033.77            | 26.98           | 24.84       | 83.04                 | 3,096.47                          | 5,788.31   | 6,376.80             | 6,324.99              | 51.81                   | 123.075           |                    |         |
| 7,400.00                      | 7,301.06            | 7,075.50            | 7,075.20            | 27.23           | 24.99       | 83.11                 | 3,096.66                          | 5,789.28   | 6,377.02             | 6,324.81              | 52.21                   | 122.153           |                    |         |
| 7,500.00                      | 7,399.97            | 7,141.36            | 7,141.04            | 27.61           | 25.21       | 83.22                 | 3,096.93                          | 5,791.13   | 6,378.07             | 6,325.27              | 52.80                   | 120.794           |                    |         |
| 7,600.00                      | 7,499.23            | 7,211.68            | 7,211.32            | 27.98           | 25.46       | 83.33                 | 3,096.92                          | 5,793.57   | 6,379.93             | 6,326.53              | 53.41                   | 119.461           |                    |         |
| 7,700.00                      | 7,598.77            | 7,295.94            | 7,295.50            | 28.34           | 25.75       | 83.45                 | 3,096.24                          | 5,797.05   | 6,382.48             | 6,328.43              | 54.05                   | 118.075           |                    |         |
| 7,800.00                      | 7,698.53            | 7,383.03            | 7,382.49            | 28.70           | 26.05       | 83.57                 | 3,094.94                          | 5,801.04   | 6,385.55             | 6,330.84              | 54.71                   | 116.721           |                    |         |
| 7,900.00                      | 7,798.44            | 7,467.36            | 7,466.72            | 29.05           | 26.35       | 83.68                 | 3,093.83                          | 5,805.03   | 6,389.12             | 6,333.78              | 55.34                   | 115.444           |                    |         |
| 8,000.00                      | 7,898.42            | 7,551.28            | 7,550.64            | 29.39           | 26.60       | 83.80                 | 3,091.75                          | 5,812.94   | 6,392.38             | 6,334.84              | 57.54                   | 111.095           |                    |         |
| 8,013.58                      | 7,912.00            | 7,713.98            | 7,713.14            | 29.43           | 27.21       | 71.03                 | 3,091.28                          | 5,814.29   | 6,392.69             | 6,336.09              | 56.60                   | 112.940           |                    |         |
| 8,100.00                      | 7,998.42            | 7,803.51            | 7,802.64            | 29.73           | 27.52       | 71.05                 | 3,090.44                          | 5,816.54   | 6,394.48             | 6,337.28              | 57.20                   | 111.783           |                    |         |
| 8,200.00                      | 8,098.42            | 7,876.00            | 7,875.11            | 30.07           | 27.77       | 71.06                 | 3,089.81                          | 5,818.32   | 6,396.58             | 6,338.79              | 57.79                   | 110.684           |                    |         |
| 8,300.00                      | 8,198.42            | 7,876.00            | 7,875.11            | 30.41           | 27.77       | 71.06                 | 3,089.81                          | 5,818.32   | 6,399.84             | 6,341.73              | 58.12                   | 110.123           |                    |         |
| 8,363.62                      | 8,262.04            | 7,876.00            | 7,875.11            | 30.62           | 27.77       | 71.06                 | 3,089.81                          | 5,818.32   | 6,402.73             | 6,344.41              | 58.32                   | 109.795           |                    |         |
| 8,400.00                      | 8,298.40            | 7,876.00            | 7,875.11            | 30.75           | 27.77       | -18.57                | 3,089.81                          | 5,818.32   | 6,403.57             | 6,345.14              | 58.43                   | 109.603           |                    |         |
| 8,450.00                      | 8,348.10            | 7,876.00            | 7,875.11            | 30.91           | 27.77       | -18.64                | 3,089.81                          | 5,818.32   | 6,401.49             | 6,342.92              | 58.57                   | 109.298           |                    |         |
| 8,500.00                      | 8,397.14            | 7,876.00            | 7,875.11            | 31.07           | 27.77       | -18.83                | 3,089.81                          | 5,818.32   | 6,395.67             | 6,336.97              | 58.71                   | 108.939           |                    |         |
| 8,550.00                      | 8,445.15            | 7,876.00            | 7,875.11            | 31.23           | 27.77       | -19.14                | 3,089.81                          | 5,818.32   | 6,386.16             | 6,327.32              | 58.84                   | 108.530           |                    |         |
| 8,600.00                      | 8,491.77            | 7,876.00            | 7,875.11            | 31.38           | 27.77       | -19.60                | 3,089.81                          | 5,818.32   | 6,373.01             | 6,314.04              | 58.97                   | 108.075           |                    |         |
| 8,650.00                      | 8,536.65            | 7,876.00            | 7,875.11            | 31.52           | 27.77       | -20.20                | 3,089.81                          | 5,818.32   | 6,356.30             | 6,297.21              | 59.09                   | 107.575           |                    |         |
| 8,700.00                      | 8,579.43            | 7,876.00            | 7,875.11            | 31.66           | 27.77       | -20.98                | 3,089.81                          | 5,818.32   | 6,336.12             | 6,276.92              | 59.20                   | 107.036           |                    |         |
| 8,750.00                      | 8,619.80            | 7,876.00            | 7,875.11            | 31.80           | 27.77       | -21.95                | 3,089.81                          | 5,818.32   | 6,312.60             | 6,253.30              | 59.30                   | 106.458           |                    |         |
| 8,800.00                      | 8,657.44            | 7,876.00            | 7,875.11            | 31.93           | 27.77       | -23.17                | 3,089.81                          | 5,818.32   | 6,285.88             | 6,226.49              | 59.39                   | 105.846           |                    |         |
| 8,850.00                      | 8,692.08            | 7,876.00            | 7,875.11            | 32.06           | 27.77       | -24.67                | 3,089.81                          | 5,818.32   | 6,256.12             | 6,196.65              | 59.47                   | 105.201           |                    |         |
| 8,900.00                      | 8,723.44            | 7,876.00            | 7,875.11            | 32.19           | 27.77       | -26.53                | 3,089.81                          | 5,818.32   | 6,223.51             | 6,163.97              | 59.54                   | 104.526           |                    |         |
| 8,950.00                      | 8,751.29            | 7,876.00            | 7,875.11            | 32.34           | 27.77       | -28.84                | 3,089.81                          | 5,818.32   | 6,188.25             | 6,128.65              | 59.60                   | 103.823           |                    |         |
| 9,000.00                      | 8,775.42            | 7,876.00            | 7,875.11            | 32.50           | 27.77       | -31.73                | 3,089.81                          | 5,818.32   | 6,150.58             | 6,090.92              | 59.66                   | 103.095           |                    |         |
| 9,050.00                      | 8,795.64            | 7,876.00            | 7,875.11            | 32.67           | 27.77       | -35.38                | 3,089.81                          | 5,818.32   | 6,110.72             | 6,051.01              | 59.71                   | 102.343           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 18-GYRO-NS-CT |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,100.00                      | 8,811.80            | 7,876.00            | 7,875.11            | 32.87           | 27.77       | -40.03                | 3,089.81                          | 5,818.32   | 6,068.95             | 6,009.20              | 59.75                   | 101.572           |                    |         |
| 9,150.00                      | 8,823.77            | 7,876.00            | 7,875.11            | 33.10           | 27.77       | -46.00                | 3,089.81                          | 5,818.32   | 6,025.55             | 5,965.77              | 59.79                   | 100.782           |                    |         |
| 9,200.00                      | 8,831.47            | 7,876.00            | 7,875.11            | 33.34           | 27.77       | -53.65                | 3,089.81                          | 5,818.32   | 5,980.82             | 5,921.00              | 59.82                   | 99.977            |                    |         |
| 9,250.00                      | 8,834.84            | 7,876.00            | 7,875.11            | 33.60           | 27.77       | -63.31                | 3,089.81                          | 5,818.32   | 5,935.07             | 5,875.21              | 59.85                   | 99.159            |                    |         |
| 9,263.62                      | 8,835.00            | 7,876.00            | 7,875.11            | 33.67           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,922.47             | 5,862.61              | 59.86                   | 98.933            |                    |         |
| 9,300.00                      | 8,835.00            | 7,876.00            | 7,875.11            | 33.88           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,888.78             | 5,828.89              | 59.89                   | 98.334            |                    |         |
| 9,400.00                      | 8,835.00            | 7,876.00            | 7,875.11            | 34.53           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,796.33             | 5,736.37              | 59.96                   | 96.668            |                    |         |
| 9,500.00                      | 8,835.00            | 7,876.00            | 7,875.11            | 35.30           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,704.14             | 5,644.08              | 60.06                   | 94.974            |                    |         |
| 9,600.00                      | 8,835.00            | 7,876.00            | 7,875.11            | 36.17           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,612.22             | 5,552.03              | 60.18                   | 93.252            |                    |         |
| 9,700.00                      | 8,835.00            | 7,876.00            | 7,875.11            | 37.13           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,520.57             | 5,460.24              | 60.33                   | 91.500            |                    |         |
| 9,800.00                      | 8,835.00            | 7,876.00            | 7,875.11            | 38.18           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,429.22             | 5,368.71              | 60.51                   | 89.719            |                    |         |
| 9,900.00                      | 8,835.00            | 7,876.00            | 7,875.11            | 39.31           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,338.19             | 5,277.46              | 60.72                   | 87.908            |                    |         |
| 10,000.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 40.51           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,247.47             | 5,186.50              | 60.97                   | 86.068            |                    |         |
| 10,100.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 41.78           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,157.10             | 5,095.86              | 61.25                   | 84.199            |                    |         |
| 10,200.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 43.10           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 5,067.10             | 5,005.53              | 61.57                   | 82.302            |                    |         |
| 10,300.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 44.49           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,977.47             | 4,915.55              | 61.93                   | 80.378            |                    |         |
| 10,400.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 45.92           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,888.25             | 4,825.92              | 62.33                   | 78.427            |                    |         |
| 10,500.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 47.39           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,799.45             | 4,736.67              | 62.78                   | 76.452            |                    |         |
| 10,600.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 48.91           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,711.10             | 4,647.83              | 63.27                   | 74.455            |                    |         |
| 10,700.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 50.47           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,623.23             | 4,559.40              | 63.82                   | 72.437            |                    |         |
| 10,800.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 52.06           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,535.86             | 4,471.43              | 64.43                   | 70.402            |                    |         |
| 10,900.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 53.68           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,449.02             | 4,383.93              | 65.09                   | 68.352            |                    |         |
| 11,000.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 55.32           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,362.74             | 4,296.93              | 65.81                   | 66.291            |                    |         |
| 11,100.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 57.00           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,277.06             | 4,210.46              | 66.60                   | 64.221            |                    |         |
| 11,200.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 58.70           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,192.02             | 4,124.56              | 67.45                   | 62.149            |                    |         |
| 11,300.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 60.41           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,107.64             | 4,039.27              | 68.37                   | 60.076            |                    |         |
| 11,400.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 62.15           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,023.99             | 3,954.62              | 69.37                   | 58.007            |                    |         |
| 11,500.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 63.91           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,941.10             | 3,870.66              | 70.44                   | 55.948            |                    |         |
| 11,600.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 65.69           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,859.02             | 3,787.42              | 71.59                   | 53.902            |                    |         |
| 11,700.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 67.47           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,777.80             | 3,704.97              | 72.83                   | 51.874            |                    |         |
| 11,800.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 69.28           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,697.50             | 3,623.35              | 74.15                   | 49.868            |                    |         |
| 11,900.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 71.09           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,618.18             | 3,542.63              | 75.55                   | 47.890            |                    |         |
| 12,000.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 72.92           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,539.92             | 3,462.87              | 77.05                   | 45.944            |                    |         |
| 12,100.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 74.76           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,462.77             | 3,384.13              | 78.64                   | 44.034            |                    |         |
| 12,200.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 76.61           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,386.81             | 3,306.49              | 80.32                   | 42.164            |                    |         |
| 12,300.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 78.47           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,312.14             | 3,230.03              | 82.11                   | 40.339            |                    |         |
| 12,400.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 80.34           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,238.83             | 3,154.84              | 83.99                   | 38.561            |                    |         |
| 12,500.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 82.22           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,166.98             | 3,081.00              | 85.98                   | 36.836            |                    |         |
| 12,600.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 84.11           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,096.69             | 3,008.63              | 88.06                   | 35.165            |                    |         |
| 12,700.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 86.00           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,028.08             | 2,937.83              | 90.25                   | 33.553            |                    |         |
| 12,800.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 87.90           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,961.25             | 2,868.72              | 92.54                   | 32.001            |                    |         |
| 12,900.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 89.81           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,896.34             | 2,801.41              | 94.92                   | 30.513            |                    |         |
| 13,000.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 91.72           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,833.46             | 2,736.06              | 97.41                   | 29.089            |                    |         |
| 13,100.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 93.64           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,772.77             | 2,672.79              | 99.98                   | 27.733            |                    |         |
| 13,200.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 95.56           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,714.41             | 2,611.76              | 102.64                  | 26.445            |                    |         |
| 13,300.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 97.49           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,658.53             | 2,553.14              | 105.39                  | 25.226            |                    |         |
| 13,400.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 99.42           | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,605.29             | 2,497.09              | 108.20                  | 24.078            |                    |         |
| 13,500.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 101.36          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,554.85             | 2,443.78              | 111.08                  | 23.001            |                    |         |
| 13,600.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 103.30          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,507.39             | 2,393.40              | 114.00                  | 21.996            |                    |         |
| 13,700.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 105.25          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,463.08             | 2,346.14              | 116.95                  | 21.061            |                    |         |
| 13,800.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 107.20          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,422.09             | 2,302.18              | 119.91                  | 20.199            |                    |         |
| 13,900.00                     | 8,835.00            | 7,876.00            | 7,875.11            | 109.15          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,384.59             | 2,261.72              | 122.87                  | 19.407            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 4H - Pilot - Pilot |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | <b>Offset Site Error:</b> | 5.00 ft |
|----------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|---------------------------|---------|
| <b>Survey Program:</b> 18-GYRO-NS-CT                                                   |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                              |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning                   |         |
| Measured Depth (ft)                                                                    | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                           |         |
| 14,000.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 111.10          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,350.75             | 2,224.95              | 125.81                  | 18.685            |                           |         |
| 14,100.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 113.06          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,320.73             | 2,192.04              | 128.69                  | 18.034            |                           |         |
| 14,200.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 115.03          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,294.68             | 2,163.18              | 131.50                  | 17.450            |                           |         |
| 14,300.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 116.99          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,272.73             | 2,138.52              | 134.21                  | 16.934            |                           |         |
| 14,400.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 118.96          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,255.00             | 2,118.21              | 136.80                  | 16.484            |                           |         |
| 14,500.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 120.93          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,241.60             | 2,102.37              | 139.24                  | 16.099            |                           |         |
| 14,600.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 122.90          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,232.61             | 2,091.10              | 141.51                  | 15.777            |                           |         |
| 14,700.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 124.88          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,228.07             | 2,084.47              | 143.60                  | 15.516            |                           |         |
| 14,751.24                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 125.89          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,227.48             | 2,082.89              | 144.59                  | 15.405 CC         |                           |         |
| 14,800.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 126.86          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,228.01             | 2,082.53              | 145.48                  | 15.315 ES         |                           |         |
| 14,900.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 128.84          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,232.44             | 2,085.29              | 147.15                  | 15.171            |                           |         |
| 15,000.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 130.82          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,241.33             | 2,092.73              | 148.60                  | 15.083            |                           |         |
| 15,100.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 132.80          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,254.62             | 2,104.80              | 149.82                  | 15.049 SF         |                           |         |
| 15,200.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 134.79          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,272.23             | 2,121.43              | 150.81                  | 15.067            |                           |         |
| 15,300.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 136.78          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,294.08             | 2,142.50              | 151.58                  | 15.135            |                           |         |
| 15,400.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 138.76          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,320.03             | 2,167.90              | 152.13                  | 15.250            |                           |         |
| 15,500.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 140.76          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,349.96             | 2,197.48              | 152.48                  | 15.411            |                           |         |
| 15,600.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 142.75          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,383.71             | 2,231.07              | 152.64                  | 15.617            |                           |         |
| 15,700.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 144.74          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,421.12             | 2,268.50              | 152.62                  | 15.864            |                           |         |
| 15,800.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 146.74          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,462.02             | 2,309.58              | 152.44                  | 16.151            |                           |         |
| 15,900.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 148.73          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,506.25             | 2,354.14              | 152.11                  | 16.476            |                           |         |
| 16,000.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 150.73          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,553.64             | 2,401.98              | 151.66                  | 16.838            |                           |         |
| 16,100.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 152.73          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,604.00             | 2,452.90              | 151.10                  | 17.234            |                           |         |
| 16,200.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 154.73          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,657.17             | 2,506.74              | 150.43                  | 17.663            |                           |         |
| 16,300.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 156.73          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,712.99             | 2,563.30              | 149.69                  | 18.124            |                           |         |
| 16,400.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 158.74          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,771.29             | 2,622.41              | 148.88                  | 18.614            |                           |         |
| 16,500.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 160.74          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,831.93             | 2,683.92              | 148.01                  | 19.133            |                           |         |
| 16,600.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 162.74          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,894.75             | 2,747.65              | 147.10                  | 19.679            |                           |         |
| 16,700.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 164.75          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 2,959.61             | 2,813.46              | 146.16                  | 20.250            |                           |         |
| 16,800.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 166.76          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,026.40             | 2,881.21              | 145.18                  | 20.845            |                           |         |
| 16,900.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 168.77          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,094.97             | 2,950.77              | 144.20                  | 21.464            |                           |         |
| 17,000.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 170.77          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,165.21             | 3,022.02              | 143.20                  | 22.104            |                           |         |
| 17,100.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 172.78          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,237.02             | 3,094.83              | 142.19                  | 22.765            |                           |         |
| 17,200.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 174.79          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,310.30             | 3,169.11              | 141.19                  | 23.446            |                           |         |
| 17,300.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 176.81          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,384.94             | 3,244.75              | 140.19                  | 24.145            |                           |         |
| 17,400.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 178.82          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,460.86             | 3,321.66              | 139.20                  | 24.862            |                           |         |
| 17,500.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 180.83          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,537.98             | 3,399.76              | 138.22                  | 25.597            |                           |         |
| 17,600.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 182.84          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,616.22             | 3,478.97              | 137.26                  | 26.347            |                           |         |
| 17,700.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 184.86          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,695.52             | 3,559.21              | 136.31                  | 27.112            |                           |         |
| 17,800.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 186.87          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,775.79             | 3,640.42              | 135.37                  | 27.892            |                           |         |
| 17,900.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 188.89          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,856.99             | 3,722.53              | 134.46                  | 28.685            |                           |         |
| 18,000.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 190.91          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 3,939.05             | 3,805.48              | 133.57                  | 29.492            |                           |         |
| 18,100.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 192.92          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,021.92             | 3,889.23              | 132.69                  | 30.310            |                           |         |
| 18,200.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 194.94          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,105.56             | 3,973.72              | 131.84                  | 31.141            |                           |         |
| 18,300.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 196.96          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,189.91             | 4,058.90              | 131.01                  | 31.983            |                           |         |
| 18,400.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 198.98          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,274.94             | 4,144.74              | 130.20                  | 32.835            |                           |         |
| 18,500.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 201.00          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,360.60             | 4,231.20              | 129.41                  | 33.697            |                           |         |
| 18,600.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 203.02          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,446.86             | 4,318.23              | 128.64                  | 34.569            |                           |         |
| 18,700.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 205.04          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,533.69             | 4,405.80              | 127.89                  | 35.450            |                           |         |
| 18,800.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 207.06          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,621.05             | 4,493.89              | 127.16                  | 36.340            |                           |         |
| 18,900.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 209.08          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,708.91             | 4,582.46              | 126.46                  | 37.238            |                           |         |
| 19,000.00                                                                              | 8,835.00            | 7,876.00            | 7,875.11            | 211.10          | 27.77       | -66.31                | 3,089.81                          | 5,818.32   | 4,797.25             | 4,671.48              | 125.77                  | 38.143            |                           |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 4H - Pilot - Pilot |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Site Error:</b> | 5.00 ft |
|----------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|-----------------------------------------|---------------|-------------------------|--------------------------|----------------------------|---------------------------|---------|
| Survey Program: 18-GYRO-NS-CT                                                          |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                              |                        | Offset                 |                        | Semi Major Axis   |                |                          | Distance                                |               |                         |                          |                            |                           | Warning |
| Measured Depth<br>(ft)                                                                 | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between Centres<br>(ft) | Between Ellipses<br>(ft) | Minimum Separation<br>(ft) | Separation Factor         |         |
| 19,100.00                                                                              | 8,835.00               | 7,876.00               | 7,875.11               | 213.12            | 27.77          | -66.31                   | 3,089.81                                | 5,818.32      | 4,886.04                | 4,760.93                 | 125.10                     | 39.056                    |         |
| 19,200.00                                                                              | 8,835.00               | 7,876.00               | 7,875.11               | 215.15            | 27.77          | -66.31                   | 3,089.81                                | 5,818.32      | 4,975.25                | 4,850.79                 | 124.46                     | 39.976                    |         |
| 19,308.27                                                                              | 8,835.00               | 7,876.00               | 7,875.11               | 217.34            | 27.77          | -66.31                   | 3,089.81                                | 5,818.32      | 5,072.29                | 4,948.52                 | 123.78                     | 40.980                    |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDCS Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 18-GYRO-NS-CT, 4369-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                                         | 0.00                | 0.00                | 0.00                | 0.50            | 5.02        | 61.82                 | 3,098.47                          | 5,783.09   | 6,561.16             |                       |                         |                   |                    |         |
| 100.00                                       | 100.00              | 9.67                | 9.67                | 0.52            | 5.02        | 61.82                 | 3,098.48                          | 5,783.10   | 6,560.91             | 6,555.37              | 5.54                    | 1,183.697         |                    |         |
| 200.00                                       | 200.00              | 83.56               | 83.56               | 0.70            | 5.03        | 61.82                 | 3,098.88                          | 5,783.50   | 6,561.60             | 6,555.87              | 5.73                    | 1,145.501         |                    |         |
| 300.00                                       | 300.00              | 189.18              | 189.17              | 0.99            | 5.04        | 61.82                 | 3,099.08                          | 5,784.32   | 6,562.37             | 6,556.35              | 6.03                    | 1,088.339         |                    |         |
| 400.00                                       | 400.00              | 288.98              | 288.98              | 1.31            | 5.08        | 61.82                 | 3,098.99                          | 5,785.15   | 6,563.07             | 6,556.67              | 6.39                    | 1,026.684         |                    |         |
| 500.00                                       | 500.00              | 386.93              | 386.92              | 1.65            | 5.15        | 61.83                 | 3,099.00                          | 5,785.95   | 6,563.79             | 6,556.99              | 6.79                    | 966.316           |                    |         |
| 600.00                                       | 600.00              | 491.69              | 491.68              | 1.99            | 5.24        | 61.83                 | 3,098.98                          | 5,786.79   | 6,564.49             | 6,557.26              | 7.23                    | 908.113           |                    |         |
| 700.00                                       | 700.00              | 596.24              | 596.22              | 2.34            | 5.35        | 61.83                 | 3,098.78                          | 5,787.62   | 6,565.10             | 6,557.41              | 7.69                    | 853.455           |                    |         |
| 800.00                                       | 800.00              | 740.90              | 740.88              | 2.69            | 5.55        | 61.83                 | 3,099.49                          | 5,788.04   | 6,565.69             | 6,557.45              | 8.24                    | 796.975           |                    |         |
| 900.00                                       | 900.00              | 883.72              | 883.69              | 3.04            | 5.78        | 61.83                 | 3,099.34                          | 5,787.08   | 6,564.95             | 6,556.13              | 8.82                    | 744.428           |                    |         |
| 1,000.00                                     | 1,000.00            | 953.30              | 953.27              | 3.40            | 5.90        | 61.83                 | 3,098.70                          | 5,787.16   | 6,564.56             | 6,555.26              | 9.30                    | 706.144           |                    |         |
| 1,018.08                                     | 1,018.08            | 953.30              | 953.27              | 3.46            | 5.90        | 61.83                 | 3,098.70                          | 5,787.16   | 6,564.53             | 6,555.17              | 9.36                    | 701.299           |                    |         |
| 1,100.00                                     | 1,100.00            | 1,029.12            | 1,029.09            | 3.75            | 6.04        | 61.84                 | 3,098.01                          | 5,787.59   | 6,564.59             | 6,554.80              | 9.79                    | 670.234           |                    |         |
| 1,200.00                                     | 1,200.00            | 1,129.89            | 1,129.85            | 4.11            | 6.24        | 61.85                 | 3,097.46                          | 5,787.99   | 6,564.69             | 6,554.33              | 10.35                   | 634.124           |                    |         |
| 1,300.00                                     | 1,300.00            | 1,225.37            | 1,225.33            | 4.46            | 6.45        | 61.85                 | 3,097.19                          | 5,788.25   | 6,564.80             | 6,553.88              | 10.91                   | 601.617           |                    |         |
| 1,400.00                                     | 1,400.00            | 1,321.64            | 1,321.60            | 4.82            | 6.67        | 61.85                 | 3,097.00                          | 5,788.55   | 6,564.98             | 6,553.49              | 11.48                   | 571.652           |                    |         |
| 1,500.00                                     | 1,500.00            | 1,420.59            | 1,420.55            | 5.18            | 6.90        | 61.86                 | 3,096.78                          | 5,788.91   | 6,565.19             | 6,553.12              | 12.07                   | 543.792           |                    |         |
| 1,600.00                                     | 1,600.00            | 1,527.00            | 1,526.96            | 5.53            | 7.16        | 61.86                 | 3,096.33                          | 5,789.37   | 6,565.38             | 6,552.69              | 12.69                   | 517.379           |                    |         |
| 1,700.00                                     | 1,700.00            | 1,645.52            | 1,645.48            | 5.89            | 7.46        | 61.87                 | 3,095.68                          | 5,789.69   | 6,565.35             | 6,552.01              | 13.35                   | 491.901           |                    |         |
| 1,800.00                                     | 1,800.00            | 1,761.51            | 1,761.46            | 6.25            | 7.76        | 61.87                 | 3,095.09                          | 5,789.65   | 6,565.08             | 6,551.07              | 14.01                   | 468.690           |                    |         |
| 1,900.00                                     | 1,900.00            | 1,861.65            | 1,861.60            | 6.61            | 8.03        | 61.87                 | 3,094.84                          | 5,789.28   | 6,564.64             | 6,550.01              | 14.63                   | 448.605           |                    |         |
| 2,000.00                                     | 2,000.00            | 1,961.72            | 1,961.67            | 6.96            | 8.31        | 61.87                 | 3,094.89                          | 5,788.82   | 6,564.25             | 6,548.99              | 15.27                   | 430.001           |                    |         |
| 2,100.00                                     | 2,099.99            | 2,066.48            | 2,066.43            | 7.32            | 8.60        | 74.66                 | 3,094.99                          | 5,788.24   | 6,563.59             | 6,547.67              | 15.92                   | 412.381           |                    |         |
| 2,200.00                                     | 2,199.96            | 2,172.84            | 2,172.79            | 7.68            | 8.90        | 74.69                 | 3,095.11                          | 5,787.55   | 6,562.37             | 6,545.79              | 16.58                   | 395.883           |                    |         |
| 2,300.00                                     | 2,299.86            | 2,273.33            | 2,273.27            | 8.04            | 9.19        | 74.74                 | 3,095.32                          | 5,786.77   | 6,560.64             | 6,543.41              | 17.22                   | 380.888           |                    |         |
| 2,400.00                                     | 2,399.68            | 2,366.26            | 2,366.20            | 8.39            | 9.47        | 74.80                 | 3,095.58                          | 5,786.07   | 6,558.50             | 6,540.64              | 17.85                   | 367.337           |                    |         |
| 2,500.00                                     | 2,499.37            | 2,455.94            | 2,455.87            | 8.75            | 9.73        | 74.88                 | 3,095.88                          | 5,785.51   | 6,556.04             | 6,537.57              | 18.48                   | 354.820           |                    |         |
| 2,600.00                                     | 2,598.90            | 2,563.11            | 2,563.05            | 9.11            | 10.06       | 74.99                 | 3,096.11                          | 5,784.92   | 6,553.15             | 6,533.99              | 19.16                   | 342.103           |                    |         |
| 2,700.00                                     | 2,698.26            | 2,664.76            | 2,664.70            | 9.46            | 10.37       | 75.12                 | 3,096.11                          | 5,784.39   | 6,549.75             | 6,529.93              | 19.82                   | 330.451           |                    |         |
| 2,800.00                                     | 2,797.40            | 2,764.23            | 2,764.16            | 9.82            | 10.67       | 75.26                 | 3,096.22                          | 5,783.77   | 6,545.89             | 6,525.41              | 20.48                   | 319.582           |                    |         |
| 2,900.00                                     | 2,896.30            | 2,900.00            | 4,980.63            | 10.18           | 18.06       | 103.76                | 275.86                            | 6,143.58   | 6,526.65             | 6,499.41              | 27.24                   | 239.614           |                    |         |
| 3,000.00                                     | 2,994.93            | 3,000.00            | 4,980.42            | 10.54           | 16.62       | 103.92                | 290.68                            | 6,143.16   | 6,497.80             | 6,471.52              | 26.28                   | 247.241           |                    |         |
| 3,100.00                                     | 3,093.26            | 3,100.00            | 4,978.33            | 10.90           | 15.61       | 102.76                | 449.32                            | 6,136.74   | 6,470.55             | 6,444.88              | 25.67                   | 252.071           |                    |         |
| 3,195.07                                     | 3,186.42            | 7,420.03            | 4,978.31            | 11.24           | 44.32       | 102.97                | 452.87                            | 6,136.63   | 6,446.20             | 6,392.66              | 53.54                   | 120.391           |                    |         |
| 3,200.00                                     | 3,191.25            | 7,417.42            | 4,978.29            | 11.26           | 44.28       | 102.95                | 455.48                            | 6,136.50   | 6,444.98             | 6,391.44              | 53.54                   | 120.387           |                    |         |
| 3,300.00                                     | 3,289.08            | 7,364.55            | 4,977.80            | 11.62           | 43.55       | 102.48                | 508.26                            | 6,133.65   | 6,420.86             | 6,367.48              | 53.37                   | 120.300           |                    |         |
| 3,400.00                                     | 3,386.91            | 7,339.96            | 4,977.56            | 11.98           | 43.21       | 102.25                | 532.82                            | 6,132.24   | 6,398.08             | 6,344.50              | 53.57                   | 119.429           |                    |         |
| 3,500.00                                     | 3,484.74            | 7,326.09            | 4,977.42            | 12.35           | 43.02       | 102.13                | 546.67                            | 6,131.45   | 6,376.73             | 6,322.83              | 53.90                   | 118.296           |                    |         |
| 3,600.00                                     | 3,582.58            | 7,312.22            | 4,977.28            | 12.72           | 42.83       | 102.00                | 560.51                            | 6,130.67   | 6,356.85             | 6,302.62              | 54.23                   | 117.216           |                    |         |
| 3,700.00                                     | 3,680.41            | 7,298.35            | 4,977.14            | 13.09           | 42.64       | 101.88                | 574.36                            | 6,129.91   | 6,338.44             | 6,283.89              | 54.55                   | 116.189           |                    |         |
| 3,800.00                                     | 3,778.24            | 7,284.49            | 4,977.00            | 13.46           | 42.45       | 101.76                | 588.20                            | 6,129.16   | 6,321.52             | 6,266.65              | 54.87                   | 115.216           |                    |         |
| 3,900.00                                     | 3,876.08            | 7,270.64            | 4,976.87            | 13.83           | 42.26       | 101.63                | 602.03                            | 6,128.42   | 6,306.10             | 6,250.92              | 55.17                   | 114.296           |                    |         |
| 4,000.00                                     | 3,973.91            | 7,256.00            | 4,976.72            | 14.21           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,292.18             | 6,236.72              | 55.46                   | 113.450           |                    |         |
| 4,100.00                                     | 4,071.74            | 7,256.00            | 4,976.72            | 14.58           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,279.80             | 6,223.87              | 55.94                   | 112.269           |                    |         |
| 4,200.00                                     | 4,169.57            | 7,256.00            | 4,976.72            | 14.96           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,268.99             | 6,212.60              | 56.40                   | 111.153           |                    |         |
| 4,300.00                                     | 4,267.41            | 7,256.00            | 4,976.72            | 15.33           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,259.77             | 6,202.91              | 56.85                   | 110.101           |                    |         |
| 4,400.00                                     | 4,365.24            | 7,256.00            | 4,976.72            | 15.71           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,252.12             | 6,194.82              | 57.30                   | 109.110           |                    |         |
| 4,500.00                                     | 4,463.07            | 7,256.00            | 4,976.72            | 16.09           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,246.07             | 6,188.34              | 57.74                   | 108.181           |                    |         |
| 4,600.00                                     | 4,560.90            | 7,256.00            | 4,976.72            | 16.47           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,241.62             | 6,183.46              | 58.16                   | 107.312           |                    |         |
| 4,700.00                                     | 4,658.74            | 7,256.00            | 4,976.72            | 16.85           | 42.06       | 101.50                | 616.65                            | 6,127.66   | 6,238.77             | 6,180.19              | 58.58                   | 106.503           |                    |         |
| 4,800.00                                     | 4,756.57            | 7,218.39            | 4,976.55            | 17.23           | 41.56       | 101.16                | 654.22                            | 6,126.05   | 6,237.05             | 6,178.55              | 58.50                   | 106.614           |                    |         |
| 4,835.96                                     | 4,791.75            | 7,216.60            | 4,976.55            | 17.36           | 41.53       | 101.14                | 656.01                            | 6,125.99   | 6,236.95             | 6,178.32              | 58.62                   | 106.394           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 18-GYRO-NS-CT, 4369-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 4,900.00                                     | 4,854.40            | 7,213.38            | 4,976.56            | 17.61           | 41.49       | 101.11                | 659.23                            | 6,125.89   | 6,237.27             | 6,178.44              | 58.83                   | 106.021           |                    |         |
| 5,000.00                                     | 4,952.23            | 7,208.31            | 4,976.58            | 17.99           | 41.42       | 101.07                | 664.30                            | 6,125.74   | 6,239.08             | 6,179.93              | 59.15                   | 105.483           |                    |         |
| 5,100.00                                     | 5,050.07            | 7,203.17            | 4,976.60            | 18.37           | 41.35       | 101.02                | 669.44                            | 6,125.60   | 6,242.47             | 6,183.02              | 59.45                   | 104.999           |                    |         |
| 5,200.00                                     | 5,147.95            | 7,197.95            | 4,976.63            | 18.75           | 41.28       | 100.98                | 674.65                            | 6,125.47   | 6,247.45             | 6,187.71              | 59.74                   | 104.569           |                    |         |
| 5,300.00                                     | 5,245.73            | 7,191.00            | 4,977.09            | 19.14           | 40.79       | 100.64                | 711.59                            | 6,124.92   | 6,254.32             | 6,194.70              | 59.62                   | 104.903           |                    |         |
| 5,400.00                                     | 5,343.56            | 7,161.00            | 4,977.09            | 19.52           | 40.79       | 100.64                | 711.59                            | 6,124.92   | 6,262.35             | 6,202.39              | 59.96                   | 104.450           |                    |         |
| 5,500.00                                     | 5,441.40            | 7,161.00            | 4,977.09            | 19.90           | 40.79       | 100.64                | 711.59                            | 6,124.92   | 6,271.96             | 6,211.68              | 60.28                   | 104.050           |                    |         |
| 5,600.00                                     | 5,539.23            | 7,161.00            | 4,977.09            | 20.29           | 40.79       | 100.64                | 711.59                            | 6,124.92   | 6,283.14             | 6,222.55              | 60.59                   | 103.701           |                    |         |
| 5,700.00                                     | 5,637.06            | 7,161.00            | 4,977.09            | 20.67           | 40.79       | 100.64                | 711.59                            | 6,124.92   | 6,295.90             | 6,235.01              | 60.89                   | 103.402           |                    |         |
| 5,800.00                                     | 5,734.90            | 6,404.00            | 4,985.02            | 21.05           | 30.74       | 93.88                 | 1,464.97                          | 6,072.35   | 6,309.98             | 6,258.48              | 51.50                   | 122.531           |                    |         |
| 5,900.00                                     | 5,832.73            | 6,404.00            | 4,985.02            | 21.44           | 30.74       | 93.88                 | 1,464.97                          | 6,072.35   | 6,323.27             | 6,271.48              | 51.80                   | 122.075           |                    |         |
| 6,000.00                                     | 5,930.56            | 6,384.27            | 4,985.08            | 21.83           | 30.48       | 93.70                 | 1,484.54                          | 6,069.84   | 6,338.08             | 6,286.24              | 51.84                   | 122.273           |                    |         |
| 6,100.00                                     | 6,028.39            | 6,368.75            | 4,985.21            | 22.21           | 30.28       | 93.57                 | 1,499.93                          | 6,067.89   | 6,354.37             | 6,302.46              | 51.92                   | 122.393           |                    |         |
| 6,200.00                                     | 6,126.23            | 6,352.64            | 4,985.40            | 22.60           | 30.06       | 93.42                 | 1,515.92                          | 6,065.90   | 6,372.14             | 6,320.16              | 51.98                   | 122.582           |                    |         |
| 6,300.00                                     | 6,224.06            | 6,335.90            | 4,985.68            | 22.98           | 29.84       | 93.27                 | 1,532.53                          | 6,063.85   | 6,391.37             | 6,339.34              | 52.03                   | 122.838           |                    |         |
| 6,400.00                                     | 6,321.89            | 6,318.50            | 4,986.04            | 23.37           | 29.62       | 93.12                 | 1,549.80                          | 6,061.75   | 6,412.04             | 6,359.98              | 52.06                   | 123.163           |                    |         |
| 6,500.00                                     | 6,419.72            | 6,299.62            | 4,986.52            | 23.76           | 29.37       | 92.95                 | 1,568.54                          | 6,059.51   | 6,434.14             | 6,382.07              | 52.07                   | 123.572           |                    |         |
| 6,600.00                                     | 6,517.56            | 6,279.99            | 4,987.02            | 24.14           | 29.12       | 92.78                 | 1,588.03                          | 6,057.19   | 6,457.64             | 6,405.58              | 52.06                   | 124.046           |                    |         |
| 6,700.00                                     | 6,615.39            | 6,260.30            | 4,987.53            | 24.53           | 28.86       | 92.60                 | 1,607.57                          | 6,054.87   | 6,482.52             | 6,430.48              | 52.04                   | 124.567           |                    |         |
| 6,800.00                                     | 6,713.22            | 6,240.57            | 4,988.05            | 24.92           | 28.61       | 92.43                 | 1,627.17                          | 6,052.57   | 6,508.78             | 6,456.77              | 52.01                   | 125.135           |                    |         |
| 6,900.00                                     | 6,811.05            | 6,220.78            | 4,988.58            | 25.30           | 28.36       | 92.25                 | 1,646.81                          | 6,050.26   | 6,536.39             | 6,484.41              | 51.98                   | 125.749           |                    |         |
| 7,000.00                                     | 6,908.89            | 6,218.00            | 4,988.65            | 25.69           | 28.32       | 92.23                 | 1,649.57                          | 6,049.94   | 6,565.37             | 6,513.22              | 52.14                   | 125.907           |                    |         |
| 7,100.00                                     | 7,006.72            | 5,751.00            | 4,988.46            | 26.08           | 22.59       | 88.07                 | 2,110.13                          | 5,976.96   | 6,594.71             | 6,547.82              | 46.89                   | 140.637           |                    |         |
| 7,200.00                                     | 7,104.55            | 5,717.37            | 4,987.54            | 26.47           | 22.21       | 87.77                 | 2,143.02                          | 5,970.02   | 6,624.75             | 6,578.01              | 46.73                   | 141.751           |                    |         |
| 7,216.87                                     | 7,121.05            | 5,716.30            | 4,987.51            | 26.53           | 22.20       | 87.76                 | 2,144.06                          | 5,969.81   | 6,629.98             | 6,583.22              | 46.76                   | 141.794           |                    |         |
| 7,300.00                                     | 7,202.57            | 5,711.32            | 4,987.40            | 26.85           | 22.14       | 88.14                 | 2,148.94                          | 5,968.82   | 6,656.33             | 6,609.47              | 46.87                   | 142.025           |                    |         |
| 7,400.00                                     | 7,301.06            | 5,706.07            | 4,987.29            | 27.23           | 22.08       | 88.61                 | 2,154.10                          | 5,967.78   | 6,689.33             | 6,642.33              | 47.00                   | 142.339           |                    |         |
| 7,500.00                                     | 7,399.97            | 5,701.63            | 4,987.20            | 27.61           | 22.03       | 89.12                 | 2,158.44                          | 5,966.92   | 6,723.70             | 6,676.58              | 47.12                   | 142.694           |                    |         |
| 7,600.00                                     | 7,499.23            | 5,698.04            | 4,987.13            | 27.98           | 21.99       | 89.66                 | 2,161.97                          | 5,966.23   | 6,759.41             | 6,712.17              | 47.24                   | 143.086           |                    |         |
| 7,700.00                                     | 7,598.77            | 5,695.32            | 4,987.08            | 28.34           | 21.96       | 90.24                 | 2,164.64                          | 5,965.70   | 6,796.41             | 6,749.05              | 47.36                   | 143.513           |                    |         |
| 7,800.00                                     | 7,698.53            | 5,693.49            | 4,987.05            | 28.70           | 21.94       | 90.84                 | 2,166.43                          | 5,965.35   | 6,834.66             | 6,787.18              | 47.47                   | 143.973           |                    |         |
| 7,900.00                                     | 7,798.44            | 5,692.58            | 4,987.03            | 29.05           | 21.93       | 91.48                 | 2,167.33                          | 5,965.18   | 6,874.11             | 6,826.53              | 47.58                   | 144.461           |                    |         |
| 8,000.00                                     | 7,898.42            | 5,692.60            | 4,987.03            | 29.39           | 21.93       | 92.14                 | 2,167.30                          | 5,965.18   | 6,914.73             | 6,867.03              | 47.70                   | 144.976           |                    |         |
| 8,013.58                                     | 7,912.00            | 5,692.68            | 4,987.04            | 29.43           | 21.93       | 79.46                 | 2,167.23                          | 5,965.20   | 6,920.33             | 6,872.62              | 47.71                   | 145.048           |                    |         |
| 8,100.00                                     | 7,998.42            | 5,693.24            | 4,987.05            | 29.73           | 21.94       | 79.46                 | 2,166.68                          | 5,965.30   | 6,956.49             | 6,908.69              | 47.80                   | 145.518           |                    |         |
| 8,200.00                                     | 8,098.42            | 5,693.89            | 4,987.06            | 30.07           | 21.95       | 79.47                 | 2,166.04                          | 5,965.43   | 6,999.43             | 6,951.52              | 47.91                   | 146.095           |                    |         |
| 8,300.00                                     | 8,198.42            | 5,694.56            | 4,987.07            | 30.41           | 21.95       | 79.47                 | 2,165.39                          | 5,965.56   | 7,043.54             | 6,995.52              | 48.01                   | 146.706           |                    |         |
| 8,363.62                                     | 8,262.04            | 5,694.99            | 4,987.08            | 30.62           | 21.96       | 79.48                 | 2,164.96                          | 5,965.64   | 7,072.18             | 7,024.11              | 48.07                   | 147.111           |                    |         |
| 8,400.00                                     | 8,298.40            | 5,695.32            | 4,987.08            | 30.75           | 21.96       | -9.88                 | 2,164.64                          | 5,965.70   | 7,087.75             | 7,039.65              | 48.10                   | 147.340           |                    |         |
| 8,450.00                                     | 8,348.10            | 5,696.04            | 4,987.10            | 30.91           | 21.97       | -9.54                 | 2,163.93                          | 5,965.84   | 7,105.99             | 7,057.85              | 48.14                   | 147.603           |                    |         |
| 8,500.00                                     | 8,397.14            | 5,697.07            | 4,987.11            | 31.07           | 21.98       | -9.29                 | 2,162.92                          | 5,966.04   | 7,120.48             | 7,072.30              | 48.18                   | 147.791           |                    |         |
| 8,550.00                                     | 8,445.15            | 5,698.41            | 4,987.14            | 31.23           | 22.00       | -9.10                 | 2,161.60                          | 5,966.30   | 7,131.14             | 7,082.92              | 48.21                   | 147.904           |                    |         |
| 8,600.00                                     | 8,491.77            | 5,700.06            | 4,987.17            | 31.38           | 22.02       | -8.98                 | 2,159.98                          | 5,966.62   | 7,137.89             | 7,089.64              | 48.25                   | 147.942           |                    |         |
| 8,650.00                                     | 8,536.65            | 5,702.02            | 4,987.21            | 31.52           | 22.04       | -8.92                 | 2,158.07                          | 5,966.99   | 7,140.70             | 7,092.42              | 48.28                   | 147.909           |                    |         |
| 8,700.00                                     | 8,579.43            | 5,704.27            | 4,987.25            | 31.66           | 22.06       | -8.92                 | 2,155.86                          | 5,967.43   | 7,139.55             | 7,091.24              | 48.30                   | 147.806           |                    |         |
| 8,750.00                                     | 8,619.80            | 5,706.82            | 4,987.31            | 31.80           | 22.09       | -8.98                 | 2,153.36                          | 5,967.93   | 7,134.44             | 7,086.12              | 48.33                   | 147.634           |                    |         |
| 8,800.00                                     | 8,657.44            | 5,709.64            | 4,987.37            | 31.93           | 22.12       | -9.10                 | 2,150.59                          | 5,968.49   | 7,125.42             | 7,077.07              | 48.34                   | 147.394           |                    |         |
| 8,850.00                                     | 8,692.08            | 5,712.73            | 4,987.43            | 32.06           | 22.16       | -9.29                 | 2,147.56                          | 5,969.10   | 7,112.52             | 7,064.16              | 48.36                   | 147.088           |                    |         |
| 8,900.00                                     | 8,723.44            | 5,716.08            | 4,987.51            | 32.19           | 22.20       | -9.55                 | 2,144.28                          | 5,969.76   | 7,095.83             | 7,047.46              | 48.36                   | 146.718           |                    |         |
| 8,950.00                                     | 8,751.29            | 5,719.66            | 4,987.59            | 32.34           | 22.24       | -9.90                 | 2,140.78                          | 5,970.48   | 7,075.44             | 7,027.08              | 48.37                   | 146.284           |                    |         |
| 9,000.00                                     | 8,775.42            | 5,723.45            | 4,987.69            | 32.50           | 22.28       | -10.34                | 2,137.07                          | 5,971.24   | 7,051.49             | 7,003.12              | 48.37                   | 145.789           |                    |         |
| 9,050.00                                     | 8,795.64            | 5,751.00            | 4,988.46            | 32.67           | 22.59       | -10.68                | 2,110.13                          | 5,976.96   | 7,024.20             | 6,975.61              | 48.59                   | 144.550           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDC Permian NM                     | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 18-GYRO-NS-CT, 4369-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,100.00                                     | 8,811.80            | 5,751.00            | 4,988.46            | 32.87           | 22.59       | -11.43                | 2,110.13                          | 5,976.96   | 6,993.53             | 6,944.99              | 48.55                   | 144.061           |                    |         |
| 9,150.00                                     | 8,823.77            | 5,751.00            | 4,988.46            | 33.10           | 22.59       | -12.37                | 2,110.13                          | 5,976.96   | 6,959.81             | 6,911.31              | 48.49                   | 143.517           |                    |         |
| 9,200.00                                     | 8,831.47            | 5,751.00            | 4,988.46            | 33.34           | 22.59       | -13.57                | 2,110.13                          | 5,976.96   | 6,923.24             | 6,874.80              | 48.44                   | 142.922           |                    |         |
| 9,250.00                                     | 8,834.84            | 5,751.00            | 4,988.46            | 33.60           | 22.59       | -15.14                | 2,110.13                          | 5,976.96   | 6,884.06             | 6,835.67              | 48.39                   | 142.274           |                    |         |
| 9,263.62                                     | 8,835.00            | 5,751.00            | 4,988.46            | 33.67           | 22.59       | -15.65                | 2,110.13                          | 5,976.96   | 6,872.96             | 6,824.59              | 48.37                   | 142.081           |                    |         |
| 9,300.00                                     | 8,835.00            | 5,751.00            | 4,988.46            | 33.88           | 22.59       | -15.65                | 2,110.13                          | 5,976.96   | 6,843.14             | 6,794.81              | 48.33                   | 141.594           |                    |         |
| 9,400.00                                     | 8,835.00            | 5,856.46            | 4,992.64            | 34.53           | 23.85       | -14.20                | 2,007.09                          | 5,999.01   | 6,761.27             | 6,711.99              | 49.27                   | 137.223           |                    |         |
| 9,500.00                                     | 8,835.00            | 5,871.27            | 4,993.22            | 35.30           | 24.03       | -14.00                | 1,992.59                          | 6,002.01   | 6,679.77             | 6,630.47              | 49.30                   | 135.480           |                    |         |
| 9,600.00                                     | 8,835.00            | 6,185.95            | 4,989.52            | 36.17           | 27.92       | -9.46                 | 1,681.42                          | 6,046.43   | 6,598.30             | 6,545.96              | 52.34                   | 126.066           |                    |         |
| 9,700.00                                     | 8,835.00            | 6,189.15            | 4,989.44            | 37.13           | 27.96       | -9.41                 | 1,678.23                          | 6,046.76   | 6,517.16             | 6,464.92              | 52.23                   | 124.773           |                    |         |
| 9,800.00                                     | 8,835.00            | 6,218.00            | 4,988.65            | 38.18           | 28.32       | -8.99                 | 1,649.57                          | 6,049.94   | 6,436.69             | 6,384.31              | 52.38                   | 122.880           |                    |         |
| 9,900.00                                     | 8,835.00            | 6,218.00            | 4,988.65            | 39.31           | 28.32       | -8.99                 | 1,649.57                          | 6,049.94   | 6,356.58             | 6,304.33              | 52.25                   | 121.649           |                    |         |
| 10,000.00                                    | 8,835.00            | 6,218.00            | 4,988.65            | 40.51           | 28.32       | -8.99                 | 1,649.57                          | 6,049.94   | 6,277.05             | 6,224.91              | 52.13                   | 120.404           |                    |         |
| 10,100.00                                    | 8,835.00            | 6,218.00            | 4,988.65            | 41.78           | 28.32       | -8.99                 | 1,649.57                          | 6,049.94   | 6,198.10             | 6,146.08              | 52.02                   | 119.144           |                    |         |
| 10,200.00                                    | 8,835.00            | 6,218.00            | 4,988.65            | 43.10           | 28.32       | -8.99                 | 1,649.57                          | 6,049.94   | 6,119.77             | 6,067.85              | 51.92                   | 117.869           |                    |         |
| 10,300.00                                    | 8,835.00            | 6,218.00            | 4,988.65            | 44.49           | 28.32       | -8.99                 | 1,649.57                          | 6,049.94   | 6,042.08             | 5,990.25              | 51.83                   | 116.577           |                    |         |
| 10,400.00                                    | 8,835.00            | 6,218.00            | 4,988.65            | 45.92           | 28.32       | -8.99                 | 1,649.57                          | 6,049.94   | 5,965.05             | 5,913.30              | 51.75                   | 115.267           |                    |         |
| 10,500.00                                    | 8,835.00            | 6,218.38            | 4,988.64            | 47.39           | 28.33       | -8.98                 | 1,649.19                          | 6,049.99   | 5,888.72             | 5,837.03              | 51.69                   | 113.933           |                    |         |
| 10,600.00                                    | 8,835.00            | 6,228.60            | 4,988.37            | 48.91           | 28.46       | -8.83                 | 1,639.04                          | 6,051.17   | 5,813.09             | 5,761.37              | 51.72                   | 112.390           |                    |         |
| 10,700.00                                    | 8,835.00            | 6,238.88            | 4,988.10            | 50.47           | 28.59       | -8.68                 | 1,628.84                          | 6,052.37   | 5,738.19             | 5,686.42              | 51.77                   | 110.842           |                    |         |
| 10,800.00                                    | 8,835.00            | 6,249.22            | 4,987.82            | 52.06           | 28.72       | -8.53                 | 1,618.58                          | 6,053.58   | 5,664.05             | 5,612.22              | 51.83                   | 109.287           |                    |         |
| 10,900.00                                    | 8,835.00            | 6,259.62            | 4,987.55            | 53.68           | 28.86       | -8.37                 | 1,608.25                          | 6,054.79   | 5,590.68             | 5,538.79              | 51.90                   | 107.727           |                    |         |
| 11,000.00                                    | 8,835.00            | 6,270.08            | 4,987.28            | 55.32           | 28.99       | -8.22                 | 1,597.86                          | 6,056.02   | 5,518.14             | 5,466.16              | 51.98                   | 106.163           |                    |         |
| 11,100.00                                    | 8,835.00            | 6,280.61            | 4,987.00            | 57.00           | 29.13       | -8.06                 | 1,587.42                          | 6,057.26   | 5,446.44             | 5,394.37              | 52.07                   | 104.594           |                    |         |
| 11,200.00                                    | 8,835.00            | 6,291.19            | 4,986.73            | 58.70           | 29.26       | -7.91                 | 1,576.91                          | 6,058.51   | 5,375.63             | 5,323.45              | 52.18                   | 103.022           |                    |         |
| 11,300.00                                    | 8,835.00            | 6,301.85            | 4,986.46            | 60.41           | 29.40       | -7.75                 | 1,566.33                          | 6,059.77   | 5,305.73             | 5,253.43              | 52.30                   | 101.446           |                    |         |
| 11,400.00                                    | 8,835.00            | 6,315.58            | 4,986.11            | 62.15           | 29.58       | -7.54                 | 1,552.70                          | 6,061.41   | 5,236.78             | 5,184.33              | 52.46                   | 99.827            |                    |         |
| 11,500.00                                    | 8,835.00            | 6,348.14            | 4,985.47            | 63.91           | 30.00       | -7.06                 | 1,520.39                          | 6,065.34   | 5,168.80             | 5,116.04              | 52.76                   | 97.959            |                    |         |
| 11,600.00                                    | 8,835.00            | 6,382.60            | 4,985.09            | 65.69           | 30.46       | -6.55                 | 1,486.20                          | 6,069.63   | 5,101.80             | 5,048.71              | 53.09                   | 96.095            |                    |         |
| 11,700.00                                    | 8,835.00            | 6,419.13            | 4,985.04            | 67.47           | 30.94       | -6.01                 | 1,449.96                          | 6,074.30   | 5,035.80             | 4,982.36              | 53.44                   | 94.237            |                    |         |
| 11,800.00                                    | 8,835.00            | 6,417.71            | 4,985.03            | 69.28           | 30.93       | -6.03                 | 1,451.38                          | 6,074.13   | 4,970.92             | 4,917.38              | 53.54                   | 92.845            |                    |         |
| 11,900.00                                    | 8,835.00            | 6,428.08            | 4,985.06            | 71.09           | 31.07       | -5.88                 | 1,441.10                          | 6,075.53   | 4,907.18             | 4,853.44              | 53.74                   | 91.316            |                    |         |
| 12,000.00                                    | 8,835.00            | 6,439.02            | 4,985.12            | 72.92           | 31.21       | -5.71                 | 1,430.26                          | 6,077.03   | 4,844.64             | 4,790.68              | 53.96                   | 89.787            |                    |         |
| 12,100.00                                    | 8,835.00            | 6,450.58            | 4,985.22            | 74.76           | 31.37       | -5.54                 | 1,418.82                          | 6,078.67   | 4,783.34             | 4,729.15              | 54.20                   | 88.259            |                    |         |
| 12,200.00                                    | 8,835.00            | 6,462.82            | 4,985.35            | 76.61           | 31.54       | -5.36                 | 1,406.71                          | 6,080.45   | 4,723.34             | 4,668.88              | 54.46                   | 86.736            |                    |         |
| 12,300.00                                    | 8,835.00            | 6,475.78            | 4,985.52            | 78.47           | 31.71       | -5.17                 | 1,393.89                          | 6,082.38   | 4,664.66             | 4,609.92              | 54.74                   | 85.220            |                    |         |
| 12,400.00                                    | 8,835.00            | 6,489.55            | 4,985.74            | 80.34           | 31.90       | -4.96                 | 1,380.29                          | 6,084.50   | 4,607.36             | 4,552.33              | 55.04                   | 83.712            |                    |         |
| 12,500.00                                    | 8,835.00            | 6,528.43            | 4,986.54            | 82.22           | 32.43       | -4.39                 | 1,341.90                          | 6,090.59   | 4,551.48             | 4,495.98              | 55.50                   | 82.016            |                    |         |
| 12,600.00                                    | 8,835.00            | 12,600.00           | 4,989.70            | 84.11           | 116.54      | -2.69                 | 1,229.69                          | 6,106.33   | 4,496.64             | 4,383.15              | 113.49                  | 39.621 SF         |                    |         |
| 12,700.00                                    | 8,835.00            | 6,699.62            | 4,991.38            | 86.00           | 34.78       | -1.83                 | 1,172.31                          | 6,113.17   | 4,443.49             | 4,386.50              | 56.99                   | 77.968            |                    |         |
| 12,800.00                                    | 8,835.00            | 6,706.50            | 4,991.54            | 87.90           | 34.88       | -1.72                 | 1,165.46                          | 6,113.82   | 4,391.77             | 4,334.48              | 57.29                   | 76.661            |                    |         |
| 12,900.00                                    | 8,835.00            | 6,712.89            | 4,991.67            | 89.81           | 34.96       | -1.63                 | 1,159.09                          | 6,114.41   | 4,341.72             | 4,284.11              | 57.60                   | 75.373            |                    |         |
| 13,000.00                                    | 8,835.00            | 6,718.86            | 4,991.78            | 91.72           | 35.04       | -1.54                 | 1,153.15                          | 6,114.94   | 4,293.40             | 4,235.46              | 57.94                   | 74.105            |                    |         |
| 13,100.00                                    | 8,835.00            | 6,724.43            | 4,991.87            | 93.64           | 35.12       | -1.45                 | 1,147.60                          | 6,115.41   | 4,246.88             | 4,188.59              | 58.29                   | 72.858            |                    |         |
| 13,200.00                                    | 8,835.00            | 6,729.65            | 4,991.94            | 95.56           | 35.19       | -1.37                 | 1,142.40                          | 6,115.85   | 4,202.21             | 4,143.55              | 58.66                   | 71.634            |                    |         |
| 13,300.00                                    | 8,835.00            | 6,734.55            | 4,992.00            | 97.49           | 35.25       | -1.30                 | 1,137.52                          | 6,116.24   | 4,159.46             | 4,100.41              | 59.05                   | 70.434            |                    |         |
| 13,400.00                                    | 8,835.00            | 6,739.15            | 4,992.05            | 99.42           | 35.31       | -1.23                 | 1,132.93                          | 6,116.61   | 4,118.69             | 4,059.22              | 59.47                   | 69.260            |                    |         |
| 13,500.00                                    | 8,835.00            | 6,743.49            | 4,992.09            | 101.36          | 35.37       | -1.16                 | 1,128.61                          | 6,116.94   | 4,079.95             | 4,020.05              | 59.90                   | 68.112            |                    |         |
| 13,600.00                                    | 8,835.00            | 6,747.58            | 4,992.12            | 103.30          | 35.43       | -1.10                 | 1,124.52                          | 6,117.24   | 4,043.30             | 3,982.95              | 60.36                   | 66.991            |                    |         |
| 13,700.00                                    | 8,835.00            | 6,751.45            | 4,992.14            | 105.25          | 35.48       | -1.04                 | 1,120.67                          | 6,117.52   | 4,008.81             | 3,947.98              | 60.83                   | 65.900            |                    |         |
| 13,800.00                                    | 8,835.00            | 6,755.11            | 4,992.16            | 107.20          | 35.53       | -0.99                 | 1,117.01                          | 6,117.78   | 3,976.53             | 3,915.20              | 61.33                   | 64.838            |                    |         |
| 13,900.00                                    | 8,835.00            | 6,758.58            | 4,992.17            | 109.15          | 35.57       | -0.94                 | 1,113.55                          | 6,118.02   | 3,946.52             | 3,884.67              | 61.85                   | 63.807            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 18-GYRO-NS-CT, 4369-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 14,000.00                                    | 8,835.00            | 6,761.88            | 4,992.17            | 111.10          | 35.62       | -0.89                 | 1,110.26                          | 6,118.24   | 3,918.82             | 3,856.43              | 62.39                   | 62.807            |                    |         |
| 14,100.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 113.06          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,893.55             | 3,830.52              | 63.03                   | 61.777            |                    |         |
| 14,200.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 115.03          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,870.61             | 3,807.01              | 63.60                   | 60.855            |                    |         |
| 14,300.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 116.99          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,850.14             | 3,785.93              | 64.21                   | 59.964            |                    |         |
| 14,400.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 118.96          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,832.16             | 3,767.33              | 64.84                   | 59.103            |                    |         |
| 14,500.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 120.93          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,816.73             | 3,751.23              | 65.50                   | 58.275            |                    |         |
| 14,600.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 122.90          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,803.86             | 3,737.68              | 66.18                   | 57.479            |                    |         |
| 14,700.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 124.88          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,793.58             | 3,726.69              | 66.89                   | 56.715            |                    |         |
| 14,800.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 126.86          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,785.92             | 3,718.29              | 67.62                   | 55.985            |                    |         |
| 14,900.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 128.84          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,780.89             | 3,712.50              | 68.39                   | 55.288            |                    |         |
| 15,000.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 130.82          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,778.49             | 3,709.32              | 69.17                   | 54.626            |                    |         |
| 15,040.39                                    | 8,835.00            | 6,780.00            | 4,992.14            | 131.62          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,778.28             | 3,708.78              | 69.49                   | 54.369 CC         |                    |         |
| 15,100.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 132.80          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,778.75             | 3,708.77              | 69.98                   | 54.000 ES         |                    |         |
| 15,200.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 134.79          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,781.65             | 3,710.84              | 70.80                   | 53.410            |                    |         |
| 15,300.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 136.78          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,787.19             | 3,715.54              | 71.65                   | 52.859            |                    |         |
| 15,400.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 138.76          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,795.35             | 3,722.85              | 72.51                   | 52.346            |                    |         |
| 15,500.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 140.76          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,806.13             | 3,732.76              | 73.37                   | 51.873            |                    |         |
| 15,600.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 142.75          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,819.50             | 3,745.25              | 74.25                   | 51.442            |                    |         |
| 15,700.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 144.74          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,835.42             | 3,760.30              | 75.13                   | 51.052            |                    |         |
| 15,800.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 146.74          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,853.88             | 3,777.88              | 76.00                   | 50.706            |                    |         |
| 15,900.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 148.73          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,874.83             | 3,797.95              | 76.88                   | 50.403            |                    |         |
| 16,000.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 150.73          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,898.24             | 3,820.49              | 77.74                   | 50.143            |                    |         |
| 16,100.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 152.73          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,924.05             | 3,845.46              | 78.59                   | 49.928            |                    |         |
| 16,200.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 154.73          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,952.23             | 3,872.79              | 79.43                   | 49.756            |                    |         |
| 16,300.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 156.73          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 3,982.71             | 3,902.46              | 80.25                   | 49.627            |                    |         |
| 16,400.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 158.74          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 4,015.46             | 3,934.41              | 81.05                   | 49.542            |                    |         |
| 16,500.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 160.74          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 4,050.41             | 3,968.59              | 81.83                   | 49.499            |                    |         |
| 16,600.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 162.74          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 4,087.52             | 4,004.93              | 82.58                   | 49.497            |                    |         |
| 16,700.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 164.75          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 4,126.71             | 4,043.40              | 83.31                   | 49.536            |                    |         |
| 16,800.00                                    | 8,835.00            | 6,780.00            | 4,992.14            | 166.76          | 35.86       | -0.61                 | 1,092.18                          | 6,119.37   | 4,167.93             | 4,083.92              | 84.01                   | 49.614            |                    |         |
| 16,900.00                                    | 8,835.00            | 6,812.27            | 4,991.72            | 168.77          | 36.28       | -0.12                 | 1,059.95                          | 6,121.01   | 4,210.68             | 4,125.79              | 84.89                   | 49.601            |                    |         |
| 17,000.00                                    | 8,835.00            | 6,813.29            | 4,991.70            | 170.77          | 36.29       | -0.11                 | 1,058.93                          | 6,121.05   | 4,255.75             | 4,170.20              | 85.55                   | 49.748            |                    |         |
| 17,100.00                                    | 8,835.00            | 6,814.29            | 4,991.68            | 172.78          | 36.31       | -0.09                 | 1,057.93                          | 6,121.09   | 4,302.68             | 4,216.50              | 86.17                   | 49.930            |                    |         |
| 17,200.00                                    | 8,835.00            | 6,815.27            | 4,991.65            | 174.79          | 36.32       | -0.08                 | 1,056.96                          | 6,121.13   | 4,351.40             | 4,264.62              | 86.77                   | 50.146            |                    |         |
| 17,300.00                                    | 8,835.00            | 6,816.22            | 4,991.63            | 176.81          | 36.33       | -0.06                 | 1,056.01                          | 6,121.17   | 4,401.85             | 4,314.50              | 87.35                   | 50.396            |                    |         |
| 17,400.00                                    | 8,835.00            | 6,817.15            | 4,991.61            | 178.82          | 36.34       | -0.05                 | 1,055.08                          | 6,121.21   | 4,453.97             | 4,366.08              | 87.89                   | 50.677            |                    |         |
| 17,500.00                                    | 8,835.00            | 6,818.05            | 4,991.59            | 180.83          | 36.35       | -0.04                 | 1,054.17                          | 6,121.25   | 4,507.71             | 4,419.31              | 88.41                   | 50.989            |                    |         |
| 17,600.00                                    | 8,835.00            | 6,818.94            | 4,991.57            | 182.84          | 36.37       | -0.02                 | 1,053.29                          | 6,121.28   | 4,563.01             | 4,474.11              | 88.90                   | 51.330            |                    |         |
| 17,700.00                                    | 8,835.00            | 6,819.81            | 4,991.55            | 184.86          | 36.38       | -0.01                 | 1,052.42                          | 6,121.32   | 4,619.81             | 4,530.45              | 89.36                   | 51.699            |                    |         |
| 17,800.00                                    | 8,835.00            | 6,820.65            | 4,991.53            | 186.87          | 36.39       | 0.00                  | 1,051.58                          | 6,121.35   | 4,678.06             | 4,588.26              | 89.80                   | 52.095            |                    |         |
| 17,900.00                                    | 8,835.00            | 6,821.48            | 4,991.51            | 188.89          | 36.40       | 0.02                  | 1,050.75                          | 6,121.39   | 4,737.70             | 4,647.49              | 90.21                   | 52.517            |                    |         |
| 18,000.00                                    | 8,835.00            | 6,822.29            | 4,991.49            | 190.91          | 36.41       | 0.03                  | 1,049.94                          | 6,121.42   | 4,798.68             | 4,708.08              | 90.60                   | 52.963            |                    |         |
| 18,100.00                                    | 8,835.00            | 6,823.08            | 4,991.47            | 192.92          | 36.42       | 0.04                  | 1,049.15                          | 6,121.45   | 4,860.96             | 4,769.99              | 90.97                   | 53.432            |                    |         |
| 18,200.00                                    | 8,835.00            | 6,823.85            | 4,991.45            | 194.94          | 36.43       | 0.05                  | 1,048.38                          | 6,121.48   | 4,924.48             | 4,833.16              | 91.32                   | 53.925            |                    |         |
| 18,300.00                                    | 8,835.00            | 6,824.61            | 4,991.43            | 196.96          | 36.44       | 0.06                  | 1,047.62                          | 6,121.51   | 4,989.19             | 4,897.54              | 91.65                   | 54.438            |                    |         |
| 18,400.00                                    | 8,835.00            | 6,825.36            | 4,991.41            | 198.98          | 36.45       | 0.08                  | 1,046.88                          | 6,121.53   | 5,055.05             | 4,963.10              | 91.96                   | 54.972            |                    |         |
| 18,500.00                                    | 8,835.00            | 6,826.08            | 4,991.39            | 201.00          | 36.46       | 0.09                  | 1,046.15                          | 6,121.56   | 5,122.02             | 5,029.78              | 92.25                   | 55.525            |                    |         |
| 18,600.00                                    | 8,835.00            | 6,826.79            | 4,991.37            | 203.02          | 36.47       | 0.10                  | 1,045.44                          | 6,121.59   | 5,190.05             | 5,097.54              | 92.52                   | 56.097            |                    |         |
| 18,700.00                                    | 8,835.00            | 6,827.49            | 4,991.35            | 205.04          | 36.48       | 0.11                  | 1,044.75                          | 6,121.61   | 5,259.11             | 5,166.33              | 92.77                   | 56.687            |                    |         |
| 18,800.00                                    | 8,835.00            | 6,828.17            | 4,991.33            | 207.06          | 36.49       | 0.12                  | 1,044.06                          | 6,121.64   | 5,329.14             | 5,236.12              | 93.01                   | 57.294            |                    |         |
| 18,900.00                                    | 8,835.00            | 6,828.84            | 4,991.31            | 209.08          | 36.50       | 0.13                  | 1,043.40                          | 6,121.66   | 5,400.12             | 5,306.88              | 93.24                   | 57.917            |                    |         |
| 19,000.00                                    | 8,835.00            | 6,829.50            | 4,991.29            | 211.10          | 36.50       | 0.14                  | 1,042.74                          | 6,121.69   | 5,472.00             | 5,378.55              | 93.45                   | 58.555            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

|                            |                            |                                                                               |                            |                        |                    |                              |                                          |                   |                             |                              |                                |                           |                |
|----------------------------|----------------------------|-------------------------------------------------------------------------------|----------------------------|------------------------|--------------------|------------------------------|------------------------------------------|-------------------|-----------------------------|------------------------------|--------------------------------|---------------------------|----------------|
| <b>Offset Design</b>       |                            | Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 4H - Wellbore #2 - Wellbore #2 |                            |                        |                    |                              |                                          |                   |                             |                              |                                | <b>Offset Site Error:</b> | 5.00 ft        |
| <b>Survey Program:</b>     |                            | 18-GYRO-NS-CT, 4369-MWD+HDGM                                                  |                            |                        |                    |                              |                                          |                   |                             |                              |                                | <b>Offset Well Error:</b> | 0.50 ft        |
| <b>Reference</b>           |                            | <b>Offset</b>                                                                 |                            | <b>Semi Major Axis</b> |                    |                              | <b>Distance</b>                          |                   |                             |                              |                                |                           | <b>Warning</b> |
| <b>Measured Depth (ft)</b> | <b>Vertical Depth (ft)</b> | <b>Measured Depth (ft)</b>                                                    | <b>Vertical Depth (ft)</b> | <b>Reference (ft)</b>  | <b>Offset (ft)</b> | <b>Highside Toolface (°)</b> | <b>Offset Wellbore Centre +N/-S (ft)</b> | <b>+E/-W (ft)</b> | <b>Between Centres (ft)</b> | <b>Between Ellipses (ft)</b> | <b>Minimum Separation (ft)</b> | <b>Separation Factor</b>  |                |
| 19,100.00                  | 8,835.00                   | 6,830.14                                                                      | 4,991.28                   | 213.12                 | 36.51              | 0.15                         | 1,042.10                                 | 6,121.71          | 5,544.75                    | 5,451.10                     | 93.65                          | 59.208                    |                |
| 19,200.00                  | 8,835.00                   | 6,830.77                                                                      | 4,991.26                   | 215.15                 | 36.52              | 0.16                         | 1,041.47                                 | 6,121.73          | 5,618.35                    | 5,524.51                     | 93.84                          | 59.875                    |                |
| 19,308.27                  | 8,835.00                   | 6,831.44                                                                      | 4,991.24                   | 217.34                 | 36.53              | 0.17                         | 1,040.80                                 | 6,121.75          | 5,698.93                    | 5,604.91                     | 94.02                          | 60.612                    |                |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 233-GYRO-NS-CT, 4541-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                                          | 0.00                | 0.00                | 0.00                | 0.50            | 5.02        | 67.10                 | 3,259.92                          | 7,715.55   | 8,376.32             |                       |                         |                   |                    |         |
| 100.00                                        | 100.00              | 25.83               | 25.83               | 0.52            | 5.03        | 67.10                 | 3,259.92                          | 7,715.54   | 8,375.95             | 8,370.41              | 5.54                    | 1,511.127         |                    |         |
| 200.00                                        | 200.00              | 142.19              | 142.19              | 0.70            | 5.03        | 67.09                 | 3,260.14                          | 7,715.27   | 8,375.81             | 8,370.08              | 5.73                    | 1,461.266         |                    |         |
| 300.00                                        | 300.00              | 270.45              | 270.44              | 0.99            | 5.05        | 67.09                 | 3,260.65                          | 7,714.54   | 8,375.46             | 8,369.43              | 6.04                    | 1,387.503         |                    |         |
| 400.00                                        | 400.00              | 381.38              | 381.38              | 1.31            | 5.10        | 67.09                 | 3,260.51                          | 7,713.71   | 8,374.71             | 8,368.30              | 6.41                    | 1,306.411         |                    |         |
| 500.00                                        | 500.00              | 467.82              | 467.81              | 1.65            | 5.16        | 67.09                 | 3,260.14                          | 7,713.29   | 8,374.09             | 8,367.28              | 6.81                    | 1,229.996         |                    |         |
| 600.00                                        | 600.00              | 569.26              | 569.25              | 1.99            | 5.25        | 67.09                 | 3,259.64                          | 7,712.93   | 8,373.57             | 8,366.33              | 7.25                    | 1,155.705         |                    |         |
| 700.00                                        | 700.00              | 683.61              | 683.59              | 2.34            | 5.39        | 67.09                 | 3,258.93                          | 7,712.43   | 8,372.93             | 8,365.20              | 7.72                    | 1,083.894         |                    |         |
| 800.00                                        | 800.00              | 782.25              | 782.23              | 2.69            | 5.52        | 67.10                 | 3,258.10                          | 7,712.00   | 8,372.20             | 8,363.99              | 8.21                    | 1,019.771         |                    |         |
| 900.00                                        | 900.00              | 852.93              | 852.90              | 3.04            | 5.63        | 67.10                 | 3,257.63                          | 7,711.78   | 8,371.65             | 8,362.98              | 8.67                    | 965.613           |                    |         |
| 1,000.00                                      | 1,000.00            | 963.24              | 963.22              | 3.40            | 5.81        | 67.10                 | 3,257.10                          | 7,711.57   | 8,371.30             | 8,362.09              | 9.21                    | 909.160           |                    |         |
| 1,100.00                                      | 1,100.00            | 1,050.16            | 1,050.13            | 3.75            | 5.97        | 67.10                 | 3,256.70                          | 7,711.34   | 8,370.88             | 8,361.16              | 9.72                    | 861.088           |                    |         |
| 1,200.00                                      | 1,200.00            | 1,174.21            | 1,174.18            | 4.11            | 6.21        | 67.10                 | 3,256.71                          | 7,710.58   | 8,370.29             | 8,359.97              | 10.32                   | 810.927           |                    |         |
| 1,300.00                                      | 1,300.00            | 1,240.90            | 1,240.87            | 4.46            | 6.35        | 67.10                 | 3,256.92                          | 7,710.19   | 8,369.88             | 8,359.06              | 10.82                   | 773.701           |                    |         |
| 1,400.00                                      | 1,400.00            | 1,332.05            | 1,332.02            | 4.82            | 6.55        | 67.10                 | 3,257.22                          | 7,709.90   | 8,369.71             | 8,358.34              | 11.37                   | 735.868           |                    |         |
| 1,500.00                                      | 1,500.00            | 1,431.41            | 1,431.38            | 5.18            | 6.78        | 67.10                 | 3,257.47                          | 7,709.69   | 8,369.62             | 8,357.66              | 11.96                   | 699.895           |                    |         |
| 1,600.00                                      | 1,600.00            | 1,575.78            | 1,575.74            | 5.53            | 7.13        | 67.09                 | 3,258.08                          | 7,708.83   | 8,369.22             | 8,356.56              | 12.66                   | 660.875           |                    |         |
| 1,700.00                                      | 1,700.00            | 1,662.21            | 1,662.18            | 5.89            | 7.35        | 67.09                 | 3,258.24                          | 7,708.15   | 8,368.60             | 8,355.36              | 13.24                   | 632.127           |                    |         |
| 1,800.00                                      | 1,800.00            | 1,741.58            | 1,741.55            | 6.25            | 7.55        | 67.09                 | 3,258.08                          | 7,707.95   | 8,368.27             | 8,354.47              | 13.80                   | 606.347           |                    |         |
| 1,900.00                                      | 1,900.00            | 1,830.37            | 1,830.34            | 6.61            | 7.79        | 67.09                 | 3,257.64                          | 7,707.97   | 8,368.10             | 8,353.71              | 14.39                   | 581.410           |                    |         |
| 2,000.00                                      | 2,000.00            | 1,921.00            | 1,920.96            | 6.96            | 8.03        | 67.09                 | 3,257.16                          | 7,708.14   | 8,368.07             | 8,353.07              | 14.99                   | 558.080           |                    |         |
| 2,033.73                                      | 2,033.73            | 1,952.21            | 1,952.17            | 7.08            | 8.12        | 79.88                 | 3,256.90                          | 7,708.26   | 8,368.06             | 8,352.86              | 15.20                   | 550.528           |                    |         |
| 2,100.00                                      | 2,099.99            | 2,028.20            | 2,028.16            | 7.32            | 8.33        | 79.89                 | 3,256.11                          | 7,708.61   | 8,367.94             | 8,352.29              | 15.65                   | 534.802           |                    |         |
| 2,200.00                                      | 2,199.96            | 2,098.99            | 2,098.96            | 7.68            | 8.58        | 100.98                | 347.73                            | 7,834.79   | 8,350.59             | 8,299.50              | 51.09                   | 163.440           |                    |         |
| 2,300.00                                      | 2,299.86            | 2,168.53            | 2,168.50            | 8.04            | 8.86        | 101.31                | 349.18                            | 7,834.73   | 8,317.56             | 8,265.99              | 51.56                   | 161.309           |                    |         |
| 2,400.00                                      | 2,399.68            | 2,238.07            | 2,238.04            | 8.39            | 9.19        | 101.62                | 351.19                            | 7,834.64   | 8,285.92             | 8,233.90              | 52.02                   | 159.268           |                    |         |
| 2,500.00                                      | 2,499.37            | 2,307.61            | 2,307.58            | 8.75            | 9.57        | 101.91                | 353.75                            | 7,834.52   | 8,255.71             | 8,203.23              | 52.48                   | 157.317           |                    |         |
| 2,600.00                                      | 2,598.90            | 2,377.15            | 2,377.12            | 9.11            | 9.95        | 102.18                | 356.87                            | 7,834.39   | 8,226.95             | 8,174.03              | 52.92                   | 155.453           |                    |         |
| 2,700.00                                      | 2,698.26            | 2,446.69            | 2,446.66            | 9.46            | 10.33       | 102.43                | 360.57                            | 7,834.23   | 8,199.66             | 8,146.30              | 53.36                   | 153.675           |                    |         |
| 2,800.00                                      | 2,797.40            | 2,516.23            | 2,516.20            | 9.82            | 10.69       | 102.66                | 364.84                            | 7,834.05   | 8,173.85             | 8,120.07              | 53.78                   | 151.981           |                    |         |
| 2,900.00                                      | 2,896.30            | 2,585.77            | 2,585.74            | 10.18           | 11.05       | 102.69                | 369.68                            | 7,832.91   | 8,149.68             | 8,095.82              | 53.86                   | 151.318           |                    |         |
| 3,000.00                                      | 2,994.93            | 2,655.31            | 2,655.28            | 10.54           | 11.41       | 102.92                | 374.68                            | 7,832.91   | 8,126.86             | 8,072.52              | 54.34                   | 149.566           |                    |         |
| 3,100.00                                      | 3,093.26            | 2,724.85            | 2,724.82            | 10.90           | 11.77       | 103.14                | 379.68                            | 7,832.91   | 8,105.60             | 8,050.78              | 54.81                   | 147.878           |                    |         |
| 3,195.07                                      | 3,186.42            | 2,794.39            | 2,794.36            | 11.24           | 12.13       | 103.32                | 384.68                            | 7,832.91   | 8,086.84             | 8,031.57              | 55.26                   | 146.332           |                    |         |
| 3,200.00                                      | 3,191.25            | 2,863.93            | 2,863.90            | 11.26           | 12.13       | 103.32                | 389.68                            | 7,832.91   | 8,085.90             | 8,030.61              | 55.29                   | 146.254           |                    |         |
| 3,300.00                                      | 3,289.08            | 2,933.47            | 2,933.44            | 11.62           | 12.49       | 103.32                | 394.68                            | 7,832.91   | 8,067.58             | 8,011.82              | 55.76                   | 144.686           |                    |         |
| 3,400.00                                      | 3,386.91            | 3,003.01            | 3,002.98            | 11.98           | 12.85       | 103.32                | 399.68                            | 7,832.91   | 8,050.45             | 7,994.22              | 56.23                   | 143.171           |                    |         |
| 3,500.00                                      | 3,484.74            | 3,072.55            | 3,072.52            | 12.35           | 13.21       | 103.32                | 404.68                            | 7,832.91   | 8,034.53             | 7,977.84              | 56.70                   | 141.710           |                    |         |
| 3,600.00                                      | 3,582.58            | 3,142.09            | 3,142.06            | 12.72           | 13.57       | 103.32                | 409.68                            | 7,832.91   | 8,019.83             | 7,962.67              | 57.16                   | 140.302           |                    |         |
| 3,700.00                                      | 3,680.41            | 3,211.63            | 3,211.60            | 13.09           | 13.93       | 103.32                | 414.68                            | 7,832.91   | 8,006.36             | 7,948.73              | 57.62                   | 138.947           |                    |         |
| 3,800.00                                      | 3,778.24            | 3,281.17            | 3,281.14            | 13.46           | 14.29       | 103.08                | 419.68                            | 7,831.87   | 7,993.87             | 7,936.26              | 57.62                   | 138.743           |                    |         |
| 3,900.00                                      | 3,876.08            | 3,350.71            | 3,350.68            | 13.83           | 14.65       | 103.03                | 424.68                            | 7,831.70   | 7,982.76             | 7,924.78              | 57.97                   | 137.693           |                    |         |
| 4,000.00                                      | 3,973.91            | 3,420.25            | 3,420.22            | 14.21           | 15.01       | 102.98                | 429.68                            | 7,831.54   | 7,972.86             | 7,914.53              | 58.33                   | 136.690           |                    |         |
| 4,100.00                                      | 4,071.74            | 3,489.79            | 3,489.76            | 14.58           | 15.37       | 102.93                | 434.68                            | 7,831.39   | 7,964.18             | 7,905.51              | 58.68                   | 135.733           |                    |         |
| 4,200.00                                      | 4,169.57            | 3,559.33            | 3,559.30            | 14.96           | 15.73       | 102.88                | 439.68                            | 7,831.25   | 7,956.74             | 7,897.72              | 59.02                   | 134.821           |                    |         |
| 4,300.00                                      | 4,267.41            | 3,628.87            | 3,628.84            | 15.33           | 16.09       | 102.65                | 444.68                            | 7,830.77   | 7,950.65             | 7,891.65              | 59.00                   | 134.753           |                    |         |
| 4,400.00                                      | 4,365.24            | 3,698.41            | 3,698.38            | 15.71           | 16.45       | 102.65                | 449.68                            | 7,830.77   | 7,945.61             | 7,886.18              | 59.43                   | 133.704           |                    |         |
| 4,500.00                                      | 4,463.07            | 3,767.95            | 3,767.92            | 16.09           | 16.81       | 102.65                | 454.68                            | 7,830.77   | 7,941.82             | 7,881.97              | 59.85                   | 132.703           |                    |         |
| 4,600.00                                      | 4,560.90            | 3,837.49            | 3,837.46            | 16.47           | 17.17       | 102.65                | 459.68                            | 7,830.77   | 7,939.29             | 7,879.03              | 60.26                   | 131.752           |                    |         |
| 4,700.00                                      | 4,658.74            | 3,906.93            | 3,906.90            | 16.85           | 17.53       | 102.65                | 464.68                            | 7,830.77   | 7,938.02             | 7,877.36              | 60.67                   | 130.848           |                    |         |
| 4,753.88                                      | 4,711.44            | 3,976.47            | 3,976.44            | 17.05           | 17.73       | 102.56                | 503.28                            | 7,830.64   | 7,937.84             | 7,877.14              | 60.70                   | 130.772           |                    |         |
| 4,800.00                                      | 4,756.57            | 4,045.91            | 4,045.88            | 17.23           | 17.91       | 102.51                | 510.08                            | 7,830.58   | 7,937.97             | 7,877.18              | 60.79                   | 130.576           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 5H - Wellbore #1 - Wellbore #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Site Error:</b> | 5.00 ft |
|----------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 233-GYRO-NS-CT, 4541-MWD+HDGM                                                      |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                          |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                           | Warning |
| Measured Depth (ft)                                                                                | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor         |         |
| 4,900.00                                                                                           | 4,854.40            | 7,532.91            | 4,991.40            | 17.61           | 43.44       | 102.41                | 524.72                            | 7,830.45   | 7,939.14             | 7,878.15              | 60.99                   | 130.173                   |         |
| 5,000.00                                                                                           | 4,952.23            | 7,518.39            | 4,991.66            | 17.99           | 43.25       | 102.30                | 539.24                            | 7,830.34   | 7,941.53             | 7,880.35              | 61.18                   | 129.804                   |         |
| 5,100.00                                                                                           | 5,050.07            | 7,503.99            | 4,991.91            | 18.37           | 43.05       | 102.20                | 553.63                            | 7,830.25   | 7,945.14             | 7,883.77              | 61.37                   | 129.468                   |         |
| 5,200.00                                                                                           | 5,147.90            | 7,489.72            | 4,992.14            | 18.75           | 42.86       | 102.10                | 567.91                            | 7,830.17   | 7,949.97             | 7,888.42              | 61.55                   | 129.166                   |         |
| 5,300.00                                                                                           | 5,245.73            | 7,481.12            | 4,992.27            | 19.14           | 42.74       | 102.04                | 576.50                            | 7,830.12   | 7,956.01             | 7,894.21              | 61.80                   | 128.743                   |         |
| 5,400.00                                                                                           | 5,343.56            | 7,437.23            | 4,992.86            | 19.52           | 42.15       | 101.73                | 620.38                            | 7,829.91   | 7,963.23             | 7,901.66              | 61.57                   | 129.333                   |         |
| 5,500.00                                                                                           | 5,441.40            | 7,083.09            | 4,990.48            | 19.90           | 37.37       | 99.23                 | 974.33                            | 7,820.00   | 7,971.23             | 7,914.05              | 57.18                   | 139.394                   |         |
| 5,600.00                                                                                           | 5,539.23            | 7,068.69            | 4,990.17            | 20.29           | 37.18       | 99.12                 | 988.71                            | 7,819.29   | 7,980.00             | 7,922.66              | 57.34                   | 139.166                   |         |
| 5,700.00                                                                                           | 5,637.06            | 7,054.40            | 4,989.85            | 20.67           | 36.99       | 99.02                 | 1,002.98                          | 7,818.59   | 7,989.99             | 7,932.49              | 57.49                   | 138.973                   |         |
| 5,800.00                                                                                           | 5,734.90            | 7,040.22            | 4,989.52            | 21.05           | 36.80       | 98.92                 | 1,017.14                          | 7,817.90   | 8,001.17             | 7,943.53              | 57.64                   | 138.815                   |         |
| 5,900.00                                                                                           | 5,832.73            | 5,900.00            | 4,987.56            | 21.44           | 21.67       | 98.35                 | 1,097.29                          | 7,813.72   | 8,013.52             | 7,970.62              | 42.89                   | 186.821                   |         |
| 6,000.00                                                                                           | 5,930.56            | 6,000.00            | 4,987.12            | 21.83           | 22.99       | 98.23                 | 1,115.27                          | 7,812.71   | 8,026.95             | 7,982.41              | 44.54                   | 180.234                   |         |
| 6,100.00                                                                                           | 6,028.39            | 6,863.32            | 4,985.18            | 22.21           | 34.44       | 97.67                 | 1,193.70                          | 7,807.93   | 8,041.43             | 7,985.17              | 56.26                   | 142.939                   |         |
| 6,200.00                                                                                           | 6,126.23            | 6,849.72            | 4,984.82            | 22.60           | 34.26       | 97.57                 | 1,207.26                          | 7,807.06   | 8,057.08             | 8,000.69              | 56.39                   | 142.884                   |         |
| 6,300.00                                                                                           | 6,224.06            | 6,836.22            | 4,984.46            | 22.98           | 34.08       | 97.48                 | 1,220.73                          | 7,806.21   | 8,073.92             | 8,017.40              | 56.52                   | 142.863                   |         |
| 6,400.00                                                                                           | 6,321.89            | 6,822.83            | 4,984.09            | 23.37           | 33.90       | 97.38                 | 1,234.10                          | 7,805.37   | 8,091.92             | 8,035.29              | 56.64                   | 142.876                   |         |
| 6,500.00                                                                                           | 6,419.72            | 6,807.48            | 4,983.66            | 23.76           | 33.70       | 97.27                 | 1,249.41                          | 7,804.41   | 8,111.09             | 8,054.36              | 56.73                   | 142.988                   |         |
| 6,600.00                                                                                           | 6,517.56            | 6,773.57            | 4,982.92            | 24.14           | 33.25       | 97.03                 | 1,283.24                          | 7,802.30   | 8,131.39             | 8,074.82              | 56.57                   | 143.739                   |         |
| 6,700.00                                                                                           | 6,615.39            | 6,735.24            | 4,982.54            | 24.53           | 32.75       | 96.76                 | 1,321.49                          | 7,799.91   | 8,152.78             | 8,096.42              | 56.35                   | 144.672                   |         |
| 6,800.00                                                                                           | 6,713.22            | 6,717.00            | 4,982.53            | 24.92           | 32.51       | 96.63                 | 1,339.70                          | 7,798.78   | 8,175.25             | 8,118.86              | 56.39                   | 144.975                   |         |
| 6,900.00                                                                                           | 6,811.05            | 6,717.00            | 4,982.53            | 25.30           | 32.51       | 96.63                 | 1,339.70                          | 7,798.78   | 8,198.88             | 8,142.22              | 56.66                   | 144.711                   |         |
| 7,000.00                                                                                           | 6,908.89            | 6,717.00            | 4,982.53            | 25.69           | 32.51       | 96.63                 | 1,339.70                          | 7,798.78   | 8,223.65             | 8,166.73              | 56.92                   | 144.487                   |         |
| 7,100.00                                                                                           | 7,006.72            | 6,689.09            | 4,982.57            | 26.08           | 32.15       | 96.44                 | 1,367.56                          | 7,797.11   | 8,249.43             | 8,192.61              | 56.82                   | 145.190                   |         |
| 7,200.00                                                                                           | 7,104.55            | 6,681.33            | 4,982.58            | 26.47           | 32.05       | 96.38                 | 1,375.31                          | 7,796.68   | 8,276.39             | 8,219.42              | 56.97                   | 145.281                   |         |
| 7,216.87                                                                                           | 7,121.05            | 6,680.02            | 4,982.58            | 26.53           | 32.03       | 96.37                 | 1,376.61                          | 7,796.61   | 8,281.04             | 8,224.05              | 56.99                   | 145.300                   |         |
| 7,300.00                                                                                           | 7,202.57            | 6,673.93            | 4,982.58            | 26.85           | 31.96       | 96.69                 | 1,382.69                          | 7,796.27   | 8,304.35             | 8,247.23              | 57.11                   | 145.398                   |         |
| 7,400.00                                                                                           | 7,301.06            | 6,667.51            | 4,982.58            | 27.23           | 31.87       | 97.09                 | 1,389.11                          | 7,795.93   | 8,333.11             | 8,275.85              | 57.26                   | 145.526                   |         |
| 7,500.00                                                                                           | 7,399.97            | 6,662.07            | 4,982.58            | 27.61           | 31.80       | 97.52                 | 1,394.54                          | 7,795.65   | 8,362.65             | 8,305.24              | 57.41                   | 145.665                   |         |
| 7,600.00                                                                                           | 7,499.23            | 6,657.61            | 4,982.58            | 27.98           | 31.74       | 97.96                 | 1,399.00                          | 7,795.42   | 8,392.94             | 8,335.38              | 57.56                   | 145.815                   |         |
| 7,700.00                                                                                           | 7,598.77            | 6,654.12            | 4,982.58            | 28.34           | 31.70       | 98.42                 | 1,402.48                          | 7,795.24   | 8,423.96             | 8,366.25              | 57.71                   | 145.976                   |         |
| 7,800.00                                                                                           | 7,698.53            | 6,651.61            | 4,982.57            | 28.70           | 31.67       | 98.89                 | 1,404.99                          | 7,795.12   | 8,455.69             | 8,397.83              | 57.86                   | 146.146                   |         |
| 7,900.00                                                                                           | 7,798.44            | 6,650.07            | 4,982.57            | 29.05           | 31.65       | 99.39                 | 1,406.53                          | 7,795.04   | 8,488.09             | 8,430.08              | 58.01                   | 146.325                   |         |
| 8,000.00                                                                                           | 7,898.42            | 6,649.49            | 4,982.57            | 29.39           | 31.64       | 99.90                 | 1,407.10                          | 7,795.01   | 8,521.14             | 8,462.98              | 58.16                   | 146.512                   |         |
| 8,013.58                                                                                           | 7,912.00            | 6,649.49            | 4,982.57            | 29.43           | 31.64       | 87.20                 | 1,407.11                          | 7,795.01   | 8,525.67             | 8,467.49              | 58.18                   | 146.538                   |         |
| 8,100.00                                                                                           | 7,998.42            | 6,649.52            | 4,982.57            | 29.73           | 31.64       | 87.20                 | 1,407.07                          | 7,795.01   | 8,554.97             | 8,496.66              | 58.31                   | 146.713                   |         |
| 8,200.00                                                                                           | 8,098.42            | 6,649.56            | 4,982.57            | 30.07           | 31.64       | 87.20                 | 1,407.04                          | 7,795.02   | 8,589.83             | 8,531.37              | 58.46                   | 146.941                   |         |
| 8,300.00                                                                                           | 8,198.42            | 6,649.59            | 4,982.57            | 30.41           | 31.64       | 87.20                 | 1,407.00                          | 7,795.02   | 8,625.70             | 8,567.10              | 58.60                   | 147.195                   |         |
| 8,363.62                                                                                           | 8,262.04            | 6,649.61            | 4,982.57            | 30.62           | 31.64       | 87.20                 | 1,406.98                          | 7,795.02   | 8,649.05             | 8,590.36              | 58.69                   | 147.371                   |         |
| 8,400.00                                                                                           | 8,298.40            | 6,649.64            | 4,982.57            | 30.75           | 31.64       | -2.41                 | 1,406.95                          | 7,795.02   | 8,661.50             | 8,602.77              | 58.73                   | 147.469                   |         |
| 8,450.00                                                                                           | 8,348.10            | 6,649.75            | 4,982.57            | 30.91           | 31.64       | -2.35                 | 1,406.85                          | 7,795.02   | 8,675.26             | 8,616.47              | 58.79                   | 147.563                   |         |
| 8,500.00                                                                                           | 8,397.14            | 6,649.92            | 4,982.57            | 31.07           | 31.65       | -2.30                 | 1,406.68                          | 7,795.03   | 8,685.06             | 8,626.22              | 58.84                   | 147.598                   |         |
| 8,550.00                                                                                           | 8,445.15            | 6,650.16            | 4,982.57            | 31.23           | 31.65       | -2.28                 | 1,406.44                          | 7,795.05   | 8,690.83             | 8,631.94              | 58.89                   | 147.575                   |         |
| 8,600.00                                                                                           | 8,491.77            | 6,650.46            | 4,982.57            | 31.38           | 31.65       | -2.27                 | 1,406.13                          | 7,795.06   | 8,692.55             | 8,633.61              | 58.93                   | 147.497                   |         |
| 8,650.00                                                                                           | 8,536.65            | 6,650.83            | 4,982.57            | 31.52           | 31.66       | -2.28                 | 1,405.76                          | 7,795.08   | 8,690.19             | 8,631.22              | 58.97                   | 147.366                   |         |
| 8,700.00                                                                                           | 8,579.43            | 6,651.27            | 4,982.57            | 31.66           | 31.66       | -2.30                 | 1,405.33                          | 7,795.10   | 8,683.78             | 8,624.78              | 59.00                   | 147.184                   |         |
| 8,750.00                                                                                           | 8,619.80            | 6,651.76            | 4,982.57            | 31.80           | 31.67       | -2.34                 | 1,404.84                          | 7,795.12   | 8,673.35             | 8,614.33              | 59.02                   | 146.952                   |         |
| 8,800.00                                                                                           | 8,657.44            | 6,652.30            | 4,982.58            | 31.93           | 31.68       | -2.40                 | 1,404.30                          | 7,795.15   | 8,658.97             | 8,599.94              | 59.04                   | 146.673                   |         |
| 8,850.00                                                                                           | 8,692.08            | 6,652.90            | 4,982.58            | 32.06           | 31.68       | -2.48                 | 1,403.70                          | 7,795.18   | 8,640.74             | 8,581.69              | 59.04                   | 146.348                   |         |
| 8,900.00                                                                                           | 8,723.44            | 6,653.55            | 4,982.58            | 32.19           | 31.69       | -2.58                 | 1,403.05                          | 7,795.21   | 8,618.75             | 8,559.71              | 59.04                   | 145.979                   |         |
| 8,950.00                                                                                           | 8,751.29            | 6,654.24            | 4,982.58            | 32.34           | 31.70       | -2.71                 | 1,402.36                          | 7,795.25   | 8,593.16             | 8,534.13              | 59.03                   | 145.567                   |         |
| 9,000.00                                                                                           | 8,775.42            | 6,654.97            | 4,982.58            | 32.50           | 31.71       | -2.88                 | 1,401.63                          | 7,795.29   | 8,564.13             | 8,505.11              | 59.02                   | 145.113                   |         |
| 9,050.00                                                                                           | 8,795.64            | 6,655.74            | 4,982.58            | 32.67           | 31.72       | -3.10                 | 1,400.86                          | 7,795.32   | 8,531.84             | 8,472.84              | 59.00                   | 144.619                   |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 233-GYRO-NS-CT, 4541-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,100.00                                      | 8,811.80            | 6,656.54            | 4,982.58            | 32.87           | 31.73       | -3.37                 | 1,400.06                          | 7,795.36   | 8,496.50             | 8,437.53              | 58.97                   | 144.086           |                    |         |
| 9,150.00                                      | 8,823.77            | 6,657.36            | 4,982.58            | 33.10           | 31.74       | -3.73                 | 1,399.24                          | 7,795.41   | 8,458.35             | 8,399.41              | 58.94                   | 143.516           |                    |         |
| 9,200.00                                      | 8,831.47            | 6,658.21            | 4,982.58            | 33.34           | 31.75       | -4.20                 | 1,398.40                          | 7,795.45   | 8,417.64             | 8,358.74              | 58.90                   | 142.909           |                    |         |
| 9,250.00                                      | 8,834.84            | 6,659.06            | 4,982.58            | 33.60           | 31.76       | -4.86                 | 1,397.54                          | 7,795.49   | 8,374.64             | 8,315.78              | 58.87                   | 142.267           |                    |         |
| 9,263.62                                      | 8,835.00            | 6,659.30            | 4,982.58            | 33.67           | 31.77       | -5.08                 | 1,397.31                          | 7,795.50   | 8,362.57             | 8,303.72              | 58.86                   | 142.081           |                    |         |
| 9,300.00                                      | 8,835.00            | 6,659.93            | 4,982.58            | 33.88           | 31.77       | -5.07                 | 1,396.68                          | 7,795.54   | 8,330.16             | 8,271.33              | 58.83                   | 141.604           |                    |         |
| 9,400.00                                      | 8,835.00            | 6,661.68            | 4,982.58            | 34.53           | 31.80       | -5.04                 | 1,394.93                          | 7,795.63   | 8,241.23             | 8,182.49              | 58.74                   | 140.296           |                    |         |
| 9,500.00                                      | 8,835.00            | 6,663.45            | 4,982.58            | 35.30           | 31.82       | -5.02                 | 1,393.16                          | 7,795.72   | 8,152.56             | 8,093.90              | 58.66                   | 138.981           |                    |         |
| 9,600.00                                      | 8,835.00            | 6,665.25            | 4,982.58            | 36.17           | 31.84       | -4.99                 | 1,391.37                          | 7,795.81   | 8,064.15             | 8,005.57              | 58.58                   | 137.659           |                    |         |
| 9,700.00                                      | 8,835.00            | 6,667.08            | 4,982.58            | 37.13           | 31.87       | -4.96                 | 1,389.54                          | 7,795.91   | 7,976.01             | 7,917.51              | 58.51                   | 136.329           |                    |         |
| 9,800.00                                      | 8,835.00            | 6,668.93            | 4,982.58            | 38.18           | 31.89       | -4.93                 | 1,387.69                          | 7,796.01   | 7,888.16             | 7,829.72              | 58.43                   | 134.992           |                    |         |
| 9,900.00                                      | 8,835.00            | 6,670.82            | 4,982.58            | 39.31           | 31.91       | -4.91                 | 1,385.80                          | 7,796.11   | 7,800.59             | 7,742.23              | 58.37                   | 133.647           |                    |         |
| 10,000.00                                     | 8,835.00            | 6,672.73            | 4,982.58            | 40.51           | 31.94       | -4.88                 | 1,383.89                          | 7,796.21   | 7,713.33             | 7,655.03              | 58.30                   | 132.294           |                    |         |
| 10,100.00                                     | 8,835.00            | 6,674.68            | 4,982.58            | 41.78           | 31.96       | -4.85                 | 1,381.95                          | 7,796.31   | 7,626.38             | 7,568.14              | 58.25                   | 130.933           |                    |         |
| 10,200.00                                     | 8,835.00            | 6,676.65            | 4,982.58            | 43.10           | 31.99       | -4.82                 | 1,379.98                          | 7,796.42   | 7,539.75             | 7,481.56              | 58.19                   | 129.563           |                    |         |
| 10,300.00                                     | 8,835.00            | 6,678.66            | 4,982.58            | 44.49           | 32.02       | -4.79                 | 1,377.98                          | 7,796.53   | 7,453.46             | 7,395.31              | 58.15                   | 128.185           |                    |         |
| 10,400.00                                     | 8,835.00            | 6,680.69            | 4,982.58            | 45.92           | 32.04       | -4.76                 | 1,375.94                          | 7,796.64   | 7,367.51             | 7,309.40              | 58.10                   | 126.797           |                    |         |
| 10,500.00                                     | 8,835.00            | 6,682.77            | 4,982.58            | 47.39           | 32.07       | -4.73                 | 1,373.88                          | 7,796.76   | 7,281.92             | 7,223.85              | 58.07                   | 125.400           |                    |         |
| 10,600.00                                     | 8,835.00            | 6,684.87            | 4,982.58            | 48.91           | 32.10       | -4.69                 | 1,371.77                          | 7,796.88   | 7,196.70             | 7,138.65              | 58.04                   | 123.994           |                    |         |
| 10,700.00                                     | 8,835.00            | 6,687.01            | 4,982.57            | 50.47           | 32.12       | -4.66                 | 1,369.64                          | 7,797.00   | 7,111.86             | 7,053.84              | 58.02                   | 122.578           |                    |         |
| 10,800.00                                     | 8,835.00            | 6,689.19            | 4,982.57            | 52.06           | 32.15       | -4.63                 | 1,367.47                          | 7,797.12   | 7,027.42             | 6,969.41              | 58.00                   | 121.152           |                    |         |
| 10,900.00                                     | 8,835.00            | 6,691.40            | 4,982.57            | 53.68           | 32.18       | -4.60                 | 1,365.26                          | 7,797.25   | 6,943.39             | 6,885.39              | 58.00                   | 119.717           |                    |         |
| 11,000.00                                     | 8,835.00            | 6,693.65            | 4,982.57            | 55.32           | 32.21       | -4.56                 | 1,363.01                          | 7,797.38   | 6,859.78             | 6,801.78              | 58.00                   | 118.271           |                    |         |
| 11,100.00                                     | 8,835.00            | 6,717.00            | 4,982.53            | 57.00           | 32.51       | -4.21                 | 1,339.70                          | 7,798.78   | 6,776.70             | 6,718.47              | 58.23                   | 116.377           |                    |         |
| 11,200.00                                     | 8,835.00            | 6,717.00            | 4,982.53            | 58.70           | 32.51       | -4.21                 | 1,339.70                          | 7,798.78   | 6,693.98             | 6,635.76              | 58.22                   | 114.968           |                    |         |
| 11,300.00                                     | 8,835.00            | 6,717.00            | 4,982.53            | 60.41           | 32.51       | -4.21                 | 1,339.70                          | 7,798.78   | 6,611.74             | 6,553.51              | 58.23                   | 113.548           |                    |         |
| 11,400.00                                     | 8,835.00            | 6,717.00            | 4,982.53            | 62.15           | 32.51       | -4.21                 | 1,339.70                          | 7,798.78   | 6,530.00             | 6,471.76              | 58.24                   | 112.117           |                    |         |
| 11,500.00                                     | 8,835.00            | 6,717.00            | 4,982.53            | 63.91           | 32.51       | -4.21                 | 1,339.70                          | 7,798.78   | 6,448.77             | 6,390.50              | 58.27                   | 110.675           |                    |         |
| 11,600.00                                     | 8,835.00            | 11,600.00           | 4,983.03            | 65.69           | 97.02       | -3.63                 | 1,301.38                          | 7,801.17   | 6,367.96             | 6,253.78              | 114.18                  | 55.771            |                    |         |
| 11,700.00                                     | 8,835.00            | 11,700.00           | 4,983.10            | 67.47           | 98.35       | -3.55                 | 1,295.76                          | 7,801.52   | 6,287.78             | 6,172.66              | 115.12                  | 54.618            |                    |         |
| 11,800.00                                     | 8,835.00            | 11,800.00           | 4,983.18            | 69.28           | 99.67       | -3.46                 | 1,290.14                          | 7,801.87   | 6,208.17             | 6,092.12              | 116.06                  | 53.491            |                    |         |
| 11,900.00                                     | 8,835.00            | 11,900.00           | 4,983.25            | 71.09           | 101.00      | -3.38                 | 1,284.52                          | 7,802.22   | 6,129.16             | 6,012.17              | 116.99                  | 52.391            |                    |         |
| 12,000.00                                     | 8,835.00            | 12,000.00           | 4,983.33            | 72.92           | 102.32      | -3.29                 | 1,278.90                          | 7,802.57   | 6,050.76             | 5,932.85              | 117.91                  | 51.317            |                    |         |
| 12,100.00                                     | 8,835.00            | 12,100.00           | 4,983.40            | 74.76           | 103.65      | -3.21                 | 1,273.28                          | 7,802.92   | 5,973.00             | 5,854.18              | 118.82                  | 50.269            |                    |         |
| 12,200.00                                     | 8,835.00            | 6,838.04            | 4,984.51            | 76.61           | 34.10       | -2.38                 | 1,218.92                          | 7,806.32   | 5,895.86             | 5,835.93              | 59.93                   | 98.382            |                    |         |
| 12,300.00                                     | 8,835.00            | 6,842.33            | 4,984.63            | 78.47           | 34.16       | -2.32                 | 1,214.64                          | 7,806.60   | 5,819.41             | 5,759.33              | 60.08                   | 96.855            |                    |         |
| 12,400.00                                     | 8,835.00            | 6,846.64            | 4,984.74            | 80.34           | 34.21       | -2.25                 | 1,210.34                          | 7,806.87   | 5,743.68             | 5,683.43              | 60.25                   | 95.326            |                    |         |
| 12,500.00                                     | 8,835.00            | 6,850.97            | 4,984.86            | 82.22           | 34.27       | -2.19                 | 1,206.02                          | 7,807.14   | 5,668.70             | 5,608.26              | 60.44                   | 93.794            |                    |         |
| 12,600.00                                     | 8,835.00            | 6,855.32            | 4,984.97            | 84.11           | 34.33       | -2.12                 | 1,201.68                          | 7,807.42   | 5,594.49             | 5,533.86              | 60.64                   | 92.261            |                    |         |
| 12,700.00                                     | 8,835.00            | 6,859.70            | 4,985.09            | 86.00           | 34.39       | -2.06                 | 1,197.31                          | 7,807.70   | 5,521.10             | 5,460.24              | 60.85                   | 90.727            |                    |         |
| 12,800.00                                     | 8,835.00            | 6,864.09            | 4,985.20            | 87.90           | 34.45       | -1.99                 | 1,192.93                          | 7,807.98   | 5,448.54             | 5,387.46              | 61.09                   | 89.194            |                    |         |
| 12,900.00                                     | 8,835.00            | 6,868.51            | 4,985.31            | 89.81           | 34.50       | -1.92                 | 1,188.52                          | 7,808.26   | 5,376.87             | 5,315.53              | 61.34                   | 87.663            |                    |         |
| 13,000.00                                     | 8,835.00            | 6,872.95            | 4,985.43            | 91.72           | 34.56       | -1.86                 | 1,184.09                          | 7,808.55   | 5,306.10             | 5,244.50              | 61.60                   | 86.135            |                    |         |
| 13,100.00                                     | 8,835.00            | 6,877.42            | 4,985.54            | 93.64           | 34.62       | -1.79                 | 1,179.63                          | 7,808.84   | 5,236.28             | 5,174.40              | 61.89                   | 84.611            |                    |         |
| 13,200.00                                     | 8,835.00            | 6,881.90            | 4,985.65            | 95.56           | 34.68       | -1.72                 | 1,175.16                          | 7,809.13   | 5,167.45             | 5,105.26              | 62.19                   | 83.093            |                    |         |
| 13,300.00                                     | 8,835.00            | 6,886.41            | 4,985.76            | 97.49           | 34.74       | -1.65                 | 1,170.66                          | 7,809.42   | 5,099.65             | 5,037.14              | 62.51                   | 81.583            |                    |         |
| 13,400.00                                     | 8,835.00            | 6,890.94            | 4,985.87            | 99.42           | 34.80       | -1.58                 | 1,166.14                          | 7,809.71   | 5,032.91             | 4,970.07              | 62.85                   | 80.082            |                    |         |
| 13,500.00                                     | 8,835.00            | 6,895.50            | 4,985.99            | 101.36          | 34.86       | -1.51                 | 1,161.60                          | 7,810.01   | 4,967.29             | 4,904.09              | 63.20                   | 78.591            |                    |         |
| 13,600.00                                     | 8,835.00            | 6,900.08            | 4,986.10            | 103.30          | 34.92       | -1.44                 | 1,157.03                          | 7,810.31   | 4,902.82             | 4,839.24              | 63.58                   | 77.113            |                    |         |
| 13,700.00                                     | 8,835.00            | 6,906.00            | 4,986.24            | 105.25          | 35.00       | -1.36                 | 1,151.12                          | 7,810.69   | 4,839.56             | 4,775.57              | 63.98                   | 75.637            |                    |         |
| 13,800.00                                     | 8,835.00            | 6,917.62            | 4,986.51            | 107.20          | 35.16       | -1.18                 | 1,139.53                          | 7,811.44   | 4,777.54             | 4,713.09              | 64.45                   | 74.128            |                    |         |
| 13,900.00                                     | 8,835.00            | 6,932.48            | 4,986.87            | 109.15          | 35.35       | -0.95                 | 1,124.70                          | 7,812.35   | 4,716.80             | 4,651.85              | 64.96                   | 72.615            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               |                      | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|---------|
| Survey Program: 233-GYRO-NS-CT, 4541-MWD+HDGM |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               |                      | Offset Well Error: | 0.50 ft |
| Reference                                     |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                      |                    | Warning |
| Measured Depth<br>(ft)                        | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor |                    |         |
| 14,000.00                                     | 8,835.00               | 6,945.90               | 4,987.20               | 111.10            | 35.53          | -0.75                       | 1,111.30                                | 7,813.15      | 4,657.41                   | 4,591.94                    | 65.47                         | 71.139               |                    |         |
| 14,100.00                                     | 8,835.00               | 6,958.10               | 4,987.50               | 113.06            | 35.70          | -0.57                       | 1,099.13                                | 7,813.83      | 4,599.40                   | 4,533.42                    | 65.99                         | 69.699               |                    |         |
| 14,200.00                                     | 8,835.00               | 6,969.22               | 4,987.77               | 115.03            | 35.85          | -0.40                       | 1,088.03                                | 7,814.44      | 4,542.85                   | 4,476.33                    | 66.52                         | 68.294               |                    |         |
| 14,300.00                                     | 8,835.00               | 6,979.41               | 4,988.02               | 116.99            | 35.98          | -0.24                       | 1,077.86                                | 7,814.97      | 4,487.80                   | 4,420.74                    | 67.06                         | 66.923               |                    |         |
| 14,400.00                                     | 8,835.00               | 6,988.77               | 4,988.26               | 118.96            | 36.11          | -0.10                       | 1,068.51                                | 7,815.44      | 4,434.32                   | 4,366.71                    | 67.61                         | 65.587               |                    |         |
| 14,500.00                                     | 8,835.00               | 6,997.41               | 4,988.48               | 120.93            | 36.22          | 0.03                        | 1,059.89                                | 7,815.86      | 4,382.45                   | 4,314.28                    | 68.17                         | 64.285               |                    |         |
| 14,600.00                                     | 8,835.00               | 7,005.40               | 4,988.68               | 122.90            | 36.33          | 0.15                        | 1,051.91                                | 7,816.23      | 4,332.26                   | 4,263.52                    | 68.75                         | 63.018               |                    |         |
| 14,700.00                                     | 8,835.00               | 7,012.82               | 4,988.87               | 124.88            | 36.43          | 0.27                        | 1,044.50                                | 7,816.57      | 4,283.82                   | 4,214.48                    | 69.33                         | 61.787               |                    |         |
| 14,800.00                                     | 8,835.00               | 7,008.90               | 4,988.77               | 126.86            | 36.38          | 0.21                        | 1,048.41                                | 7,816.40      | 4,237.18                   | 4,167.33                    | 69.86                         | 60.656               |                    |         |
| 14,900.00                                     | 8,835.00               | 7,012.25               | 4,988.85               | 128.84            | 36.42          | 0.26                        | 1,045.07                                | 7,816.56      | 4,192.41                   | 4,121.96                    | 70.45                         | 59.512               |                    |         |
| 15,000.00                                     | 8,835.00               | 7,015.61               | 4,988.93               | 130.82            | 36.47          | 0.31                        | 1,041.71                                | 7,816.72      | 4,149.56                   | 4,078.50                    | 71.05                         | 58.401               |                    |         |
| 15,100.00                                     | 8,835.00               | 7,019.00               | 4,989.01               | 132.80            | 36.51          | 0.36                        | 1,038.33                                | 7,816.88      | 4,108.69                   | 4,037.01                    | 71.67                         | 57.324               |                    |         |
| 15,200.00                                     | 8,835.00               | 7,022.39               | 4,989.10               | 134.79            | 36.56          | 0.41                        | 1,034.94                                | 7,817.04      | 4,069.86                   | 3,997.55                    | 72.31                         | 56.282               |                    |         |
| 15,300.00                                     | 8,835.00               | 7,025.81               | 4,989.18               | 136.78            | 36.60          | 0.46                        | 1,031.53                                | 7,817.20      | 4,033.14                   | 3,960.18                    | 72.96                         | 55.276               |                    |         |
| 15,400.00                                     | 8,835.00               | 7,029.24               | 4,989.26               | 138.76            | 36.65          | 0.51                        | 1,028.10                                | 7,817.37      | 3,998.58                   | 3,924.95                    | 73.63                         | 54.306               |                    |         |
| 15,500.00                                     | 8,835.00               | 7,032.69               | 4,989.34               | 140.76            | 36.69          | 0.57                        | 1,024.65                                | 7,817.53      | 3,966.24                   | 3,891.93                    | 74.31                         | 53.373               |                    |         |
| 15,600.00                                     | 8,835.00               | 7,036.16               | 4,989.43               | 142.75            | 36.74          | 0.62                        | 1,021.19                                | 7,817.70      | 3,936.17                   | 3,861.16                    | 75.01                         | 52.477               |                    |         |
| 15,700.00                                     | 8,835.00               | 7,039.65               | 4,989.51               | 144.74            | 36.79          | 0.67                        | 1,017.71                                | 7,817.87      | 3,908.42                   | 3,832.70                    | 75.72                         | 51.618               |                    |         |
| 15,800.00                                     | 8,835.00               | 7,043.15               | 4,989.59               | 146.74            | 36.83          | 0.73                        | 1,014.21                                | 7,818.04      | 3,883.05                   | 3,806.61                    | 76.44                         | 50.797               |                    |         |
| 15,900.00                                     | 8,835.00               | 7,046.68               | 4,989.67               | 148.73            | 36.88          | 0.78                        | 1,010.69                                | 7,818.21      | 3,860.09                   | 3,782.91                    | 77.18                         | 50.014               |                    |         |
| 16,000.00                                     | 8,835.00               | 7,050.22               | 4,989.75               | 150.73            | 36.93          | 0.83                        | 1,007.15                                | 7,818.38      | 3,839.61                   | 3,761.67                    | 77.93                         | 49.268               |                    |         |
| 16,100.00                                     | 8,835.00               | 7,053.78               | 4,989.83               | 152.73            | 36.98          | 0.89                        | 1,003.60                                | 7,818.56      | 3,821.62                   | 3,742.92                    | 78.70                         | 48.559               |                    |         |
| 16,200.00                                     | 8,835.00               | 7,057.36               | 4,989.91               | 154.73            | 37.03          | 0.94                        | 1,000.03                                | 7,818.73      | 3,806.17                   | 3,726.69                    | 79.48                         | 47.887               |                    |         |
| 16,300.00                                     | 8,835.00               | 7,060.95               | 4,990.00               | 156.73            | 37.07          | 1.00                        | 996.43                                  | 7,818.91      | 3,793.30                   | 3,713.02                    | 80.28                         | 47.252               |                    |         |
| 16,400.00                                     | 8,835.00               | 7,064.57               | 4,990.08               | 158.74            | 37.12          | 1.05                        | 992.82                                  | 7,819.08      | 3,783.02                   | 3,701.93                    | 81.09                         | 46.653               |                    |         |
| 16,500.00                                     | 8,835.00               | 7,068.20               | 4,990.16               | 160.74            | 37.17          | 1.11                        | 989.20                                  | 7,819.26      | 3,775.36                   | 3,693.45                    | 81.91                         | 46.091               |                    |         |
| 16,600.00                                     | 8,835.00               | 7,071.86               | 4,990.24               | 162.74            | 37.22          | 1.16                        | 985.55                                  | 7,819.44      | 3,770.33                   | 3,687.58                    | 82.75                         | 45.565               |                    |         |
| 16,700.00                                     | 8,835.00               | 7,075.53               | 4,990.32               | 164.75            | 37.27          | 1.22                        | 981.88                                  | 7,819.62      | 3,767.95                   | 3,684.35                    | 83.59                         | 45.076               |                    |         |
| 16,740.01                                     | 8,835.00               | 7,077.00               | 4,990.35               | 165.55            | 37.29          | 1.24                        | 980.41                                  | 7,819.70      | 3,767.73                   | 3,683.80                    | 83.93                         | 44.890 CC            |                    |         |
| 16,800.00                                     | 8,835.00               | 7,079.22               | 4,990.40               | 166.76            | 37.32          | 1.27                        | 978.19                                  | 7,819.81      | 3,768.21                   | 3,683.76                    | 84.45                         | 44.622 ES            |                    |         |
| 16,900.00                                     | 8,835.00               | 7,082.93               | 4,990.48               | 168.77            | 37.37          | 1.33                        | 974.48                                  | 7,819.99      | 3,771.12                   | 3,685.81                    | 85.31                         | 44.205               |                    |         |
| 17,000.00                                     | 8,835.00               | 7,086.67               | 4,990.56               | 170.77            | 37.42          | 1.39                        | 970.76                                  | 7,820.18      | 3,776.68                   | 3,690.50                    | 86.18                         | 43.824               |                    |         |
| 17,100.00                                     | 8,835.00               | 7,090.42               | 4,990.63               | 172.78            | 37.47          | 1.44                        | 967.01                                  | 7,820.36      | 3,784.86                   | 3,697.82                    | 87.05                         | 43.480               |                    |         |
| 17,200.00                                     | 8,835.00               | 7,094.19               | 4,990.71               | 174.79            | 37.52          | 1.50                        | 963.24                                  | 7,820.55      | 3,795.66                   | 3,707.75                    | 87.92                         | 43.173               |                    |         |
| 17,300.00                                     | 8,835.00               | 7,095.00               | 4,990.73               | 176.81            | 37.53          | 1.51                        | 962.44                                  | 7,820.59      | 3,809.05                   | 3,720.29                    | 88.76                         | 42.914               |                    |         |
| 17,400.00                                     | 8,835.00               | 7,100.92               | 4,990.85               | 178.82            | 37.61          | 1.60                        | 956.53                                  | 7,820.89      | 3,825.01                   | 3,735.37                    | 89.64                         | 42.672               |                    |         |
| 17,500.00                                     | 8,835.00               | 7,104.14               | 4,990.92               | 180.83            | 37.65          | 1.65                        | 953.31                                  | 7,821.05      | 3,843.50                   | 3,753.01                    | 90.48                         | 42.478               |                    |         |
| 17,600.00                                     | 8,835.00               | 7,107.31               | 4,990.98               | 182.84            | 37.70          | 1.70                        | 950.15                                  | 7,821.20      | 3,864.48                   | 3,773.17                    | 91.31                         | 42.321               |                    |         |
| 17,700.00                                     | 8,835.00               | 7,110.41               | 4,991.04               | 184.86            | 37.74          | 1.75                        | 947.05                                  | 7,821.35      | 3,887.92                   | 3,795.79                    | 92.13                         | 42.201               |                    |         |
| 17,800.00                                     | 8,835.00               | 7,113.46               | 4,991.10               | 186.87            | 37.78          | 1.79                        | 944.01                                  | 7,821.49      | 3,913.77                   | 3,820.85                    | 92.92                         | 42.118               |                    |         |
| 17,900.00                                     | 8,835.00               | 7,116.44               | 4,991.16               | 188.89            | 37.82          | 1.84                        | 941.02                                  | 7,821.64      | 3,941.99                   | 3,848.29                    | 93.70                         | 42.072               |                    |         |
| 18,000.00                                     | 8,835.00               | 7,119.38               | 4,991.22               | 190.91            | 37.86          | 1.88                        | 938.09                                  | 7,821.77      | 3,972.52                   | 3,878.08                    | 94.45                         | 42.061 SF            |                    |         |
| 18,100.00                                     | 8,835.00               | 7,122.26               | 4,991.27               | 192.92            | 37.90          | 1.93                        | 935.22                                  | 7,821.91      | 4,005.32                   | 3,910.14                    | 95.17                         | 42.086               |                    |         |
| 18,200.00                                     | 8,835.00               | 7,125.09               | 4,991.33               | 194.94            | 37.94          | 1.97                        | 932.39                                  | 7,822.04      | 4,040.32                   | 3,944.45                    | 95.87                         | 42.145               |                    |         |
| 18,300.00                                     | 8,835.00               | 7,127.86               | 4,991.38               | 196.96            | 37.97          | 2.01                        | 929.62                                  | 7,822.17      | 4,077.47                   | 3,980.93                    | 96.54                         | 42.238               |                    |         |
| 18,400.00                                     | 8,835.00               | 7,130.59               | 4,991.43               | 198.98            | 38.01          | 2.05                        | 926.89                                  | 7,822.29      | 4,116.71                   | 4,019.53                    | 97.17                         | 42.364               |                    |         |
| 18,500.00                                     | 8,835.00               | 7,133.27               | 4,991.48               | 201.00            | 38.05          | 2.10                        | 924.22                                  | 7,822.41      | 4,157.98                   | 4,060.20                    | 97.78                         | 42.522               |                    |         |
| 18,600.00                                     | 8,835.00               | 7,135.90               | 4,991.53               | 203.02            | 38.08          | 2.14                        | 921.59                                  | 7,822.53      | 4,201.23                   | 4,102.87                    | 98.36                         | 42.712               |                    |         |
| 18,700.00                                     | 8,835.00               | 7,138.49               | 4,991.57               | 205.04            | 38.12          | 2.17                        | 919.00                                  | 7,822.65      | 4,246.39                   | 4,147.48                    | 98.91                         | 42.931               |                    |         |
| 18,800.00                                     | 8,835.00               | 7,141.03               | 4,991.62               | 207.06            | 38.15          | 2.21                        | 916.46                                  | 7,822.76      | 4,293.40                   | 4,193.97                    | 99.43                         | 43.180               |                    |         |
| 18,900.00                                     | 8,835.00               | 7,143.53               | 4,991.66               | 209.08            | 38.19          | 2.25                        | 913.97                                  | 7,822.87      | 4,342.20                   | 4,242.29                    | 99.92                         | 43.457               |                    |         |
| 19,000.00                                     | 8,835.00               | 7,145.99               | 4,991.71               | 211.10            | 38.22          | 2.29                        | 911.51                                  | 7,822.98      | 4,392.74                   | 4,292.36                    | 100.38                        | 43.762               |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

|                               |                               |                                                                               |                               |                          |                       |                                 |                                                |                                                |                                |                                 |                                   |                           |                |
|-------------------------------|-------------------------------|-------------------------------------------------------------------------------|-------------------------------|--------------------------|-----------------------|---------------------------------|------------------------------------------------|------------------------------------------------|--------------------------------|---------------------------------|-----------------------------------|---------------------------|----------------|
| <b>Offset Design</b>          |                               | Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 5H - Wellbore #1 - Wellbore #1 |                               |                          |                       |                                 |                                                |                                                |                                |                                 |                                   | <b>Offset Site Error:</b> | 5.00 ft        |
| <b>Survey Program:</b>        |                               | 233-GYRO-NS-CT, 4541-MWD+HDGM                                                 |                               |                          |                       |                                 |                                                |                                                |                                |                                 |                                   | <b>Offset Well Error:</b> | 0.50 ft        |
| <b>Reference</b>              |                               | <b>Offset</b>                                                                 |                               | <b>Semi Major Axis</b>   |                       |                                 | <b>Distance</b>                                |                                                |                                |                                 |                                   |                           | <b>Warning</b> |
| <b>Measured Depth</b><br>(ft) | <b>Vertical Depth</b><br>(ft) | <b>Measured Depth</b><br>(ft)                                                 | <b>Vertical Depth</b><br>(ft) | <b>Reference</b><br>(ft) | <b>Offset</b><br>(ft) | <b>Highside Toolface</b><br>(°) | <b>Offset Wellbore Centre</b><br>+N/-S<br>(ft) | <b>Offset Wellbore Centre</b><br>+E/-W<br>(ft) | <b>Between Centres</b><br>(ft) | <b>Between Ellipses</b><br>(ft) | <b>Minimum Separation</b><br>(ft) | <b>Separation Factor</b>  |                |
| 19,100.00                     | 8,835.00                      | 7,148.41                                                                      | 4,991.75                      | 213.12                   | 38.25                 | 2.33                            | 909.10                                         | 7,823.08                                       | 4,444.95                       | 4,344.14                        | 100.81                            | 44.092                    |                |
| 19,200.00                     | 8,835.00                      | 7,150.78                                                                      | 4,991.79                      | 215.15                   | 38.28                 | 2.36                            | 906.72                                         | 7,823.18                                       | 4,498.77                       | 4,397.56                        | 101.21                            | 44.448                    |                |
| 19,308.27                     | 8,835.00                      | 7,153.31                                                                      | 4,991.83                      | 217.34                   | 38.32                 | 2.40                            | 904.20                                         | 7,823.29                                       | 4,558.81                       | 4,457.18                        | 101.62                            | 44.861                    |                |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDCS Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                             |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 81-GYRO-NS, 7138-MWD+IGRF |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.00 ft |
| Reference                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                                      | 0.00                | 0.00                | 0.00                | 0.50            | 5.00        | 69.70                 | 3,114.34                          | 8,421.08   | 8,978.81             |                       |                         |                   |                    |         |
| 100.00                                    | 100.00              | 33.10               | 33.10               | 0.52            | 5.00        | 69.70                 | 3,114.29                          | 8,421.08   | 8,978.50             | 8,972.98              | 5.52                    | 1,627.153         |                    |         |
| 200.00                                    | 200.00              | 140.30              | 140.30              | 0.70            | 5.01        | 69.71                 | 3,113.68                          | 8,421.14   | 8,978.35             | 8,972.64              | 5.71                    | 1,571.984         |                    |         |
| 284.50                                    | 284.50              | 211.31              | 211.30              | 0.94            | 5.03        | 69.71                 | 3,113.39                          | 8,421.17   | 8,978.27             | 8,972.30              | 5.97                    | 1,503.778         |                    |         |
| 300.00                                    | 300.00              | 222.86              | 222.86              | 0.99            | 5.04        | 69.71                 | 3,113.38                          | 8,421.18   | 8,978.27             | 8,972.25              | 6.02                    | 1,490.776         |                    |         |
| 400.00                                    | 400.00              | 303.42              | 303.42              | 1.31            | 5.08        | 69.71                 | 3,113.65                          | 8,421.23   | 8,978.44             | 8,972.06              | 6.39                    | 1,406.146         |                    |         |
| 500.00                                    | 500.00              | 397.47              | 397.47              | 1.65            | 5.14        | 69.71                 | 3,114.27                          | 8,421.31   | 8,978.76             | 8,971.97              | 6.79                    | 1,322.546         |                    |         |
| 600.00                                    | 600.00              | 496.76              | 496.76              | 1.99            | 5.23        | 69.70                 | 3,115.03                          | 8,421.37   | 8,979.08             | 8,971.85              | 7.23                    | 1,242.670         |                    |         |
| 700.00                                    | 700.00              | 589.76              | 589.75              | 2.34            | 5.34        | 69.70                 | 3,115.81                          | 8,421.45   | 8,979.44             | 8,971.76              | 7.68                    | 1,169.245         |                    |         |
| 800.00                                    | 800.00              | 681.17              | 681.16              | 2.69            | 5.46        | 69.69                 | 3,116.69                          | 8,421.57   | 8,979.91             | 8,971.75              | 8.15                    | 1,101.631         |                    |         |
| 900.00                                    | 900.00              | 778.02              | 778.00              | 3.04            | 5.61        | 69.69                 | 3,117.77                          | 8,421.73   | 8,980.44             | 8,971.79              | 8.65                    | 1,038.292         |                    |         |
| 1,000.00                                  | 1,000.00            | 886.30              | 886.26              | 3.40            | 5.79        | 69.68                 | 3,119.21                          | 8,421.79   | 8,980.96             | 8,971.77              | 9.18                    | 977.827           |                    |         |
| 1,100.00                                  | 1,100.00            | 974.56              | 974.52              | 3.75            | 5.95        | 69.67                 | 3,120.48                          | 8,421.76   | 8,981.44             | 8,971.73              | 9.70                    | 925.814           |                    |         |
| 1,200.00                                  | 1,200.00            | 1,057.10            | 1,057.05            | 4.11            | 6.11        | 69.66                 | 3,121.91                          | 8,421.84   | 8,982.13             | 8,971.91              | 10.22                   | 879.048           |                    |         |
| 1,300.00                                  | 1,300.00            | 1,137.35            | 1,137.28            | 4.46            | 6.28        | 69.65                 | 3,123.22                          | 8,422.10   | 8,983.00             | 8,972.26              | 10.74                   | 836.442           |                    |         |
| 1,400.00                                  | 1,400.00            | 1,224.69            | 1,224.61            | 4.82            | 6.47        | 69.65                 | 3,124.39                          | 8,422.70   | 8,984.11             | 8,972.82              | 11.29                   | 796.109           |                    |         |
| 1,500.00                                  | 1,500.00            | 1,391.89            | 1,391.80            | 5.18            | 6.85        | 69.63                 | 3,126.84                          | 8,423.25   | 8,984.96             | 8,972.93              | 12.03                   | 747.017           |                    |         |
| 1,600.00                                  | 1,600.00            | 1,472.00            | 1,471.90            | 5.53            | 7.05        | 69.63                 | 3,128.12                          | 8,423.20   | 8,985.46             | 8,972.88              | 12.58                   | 714.315           |                    |         |
| 1,700.00                                  | 1,700.00            | 1,543.04            | 1,542.93            | 5.89            | 7.23        | 69.62                 | 3,129.29                          | 8,423.36   | 8,986.24             | 8,973.12              | 13.11                   | 685.278           |                    |         |
| 1,800.00                                  | 1,800.00            | 1,617.31            | 1,617.19            | 6.25            | 7.42        | 69.61                 | 3,130.47                          | 8,423.78   | 8,987.32             | 8,973.66              | 13.66                   | 657.934           |                    |         |
| 1,900.00                                  | 1,900.00            | 1,733.43            | 1,733.29            | 6.61            | 7.72        | 69.60                 | 3,132.27                          | 8,424.65   | 8,988.58             | 8,974.25              | 14.32                   | 627.595           |                    |         |
| 2,000.00                                  | 2,000.00            | 1,852.91            | 1,852.75            | 6.96            | 8.05        | 69.59                 | 3,134.37                          | 8,425.01   | 8,989.47             | 8,974.47              | 15.00                   | 599.182           |                    |         |
| 2,100.00                                  | 2,099.99            | 1,934.76            | 1,934.59            | 7.32            | 8.27        | 82.36                 | 3,135.81                          | 8,425.29   | 8,990.29             | 8,974.70              | 15.59                   | 576.817           |                    |         |
| 2,200.00                                  | 2,199.96            | 2,043.17            | 2,042.97            | 7.68            | 8.58        | 82.36                 | 3,137.99                          | 8,425.63   | 8,990.93             | 8,974.68              | 16.25                   | 553.360           |                    |         |
| 2,300.00                                  | 2,299.86            | 2,102.71            | 2,102.50            | 8.04            | 8.75        | 82.37                 | 3,139.14                          | 8,425.95   | 8,991.53             | 8,974.75              | 16.77                   | 536.053           |                    |         |
| 2,400.00                                  | 2,399.68            | 2,251.73            | 2,251.49            | 8.39            | 9.18        | 82.40                 | 3,142.04                          | 8,426.62   | 8,991.81             | 8,974.25              | 17.56                   | 511.980           |                    |         |
| 2,433.12                                  | 2,432.70            | 2,270.06            | 2,269.82            | 8.51            | 9.24        | 82.41                 | 3,142.44                          | 8,426.65   | 8,991.80             | 8,974.07              | 17.73                   | 507.027           |                    |         |
| 2,500.00                                  | 2,499.37            | 2,320.50            | 2,320.24            | 8.75            | 9.39        | 82.43                 | 3,143.58                          | 8,426.89   | 8,991.88             | 8,973.76              | 18.12                   | 496.213           |                    |         |
| 2,600.00                                  | 2,598.90            | 2,378.65            | 2,378.38            | 9.11            | 9.56        | 82.46                 | 3,144.87                          | 8,427.37   | 8,992.10             | 8,973.46              | 18.65                   | 482.178           |                    |         |
| 2,700.00                                  | 2,698.26            | 2,552.42            | 2,552.10            | 9.46            | 10.08       | 82.56                 | 3,148.83                          | 8,428.00   | 8,991.69             | 8,972.16              | 19.53                   | 460.413           |                    |         |
| 2,800.00                                  | 2,797.40            | 2,615.30            | 2,614.96            | 9.82            | 10.28       | 82.61                 | 3,150.43                          | 8,428.11   | 8,991.03             | 8,970.95              | 20.08                   | 447.815           |                    |         |
| 2,900.00                                  | 2,896.30            | 2,695.38            | 2,695.01            | 10.18           | 10.52       | 82.68                 | 3,152.50                          | 8,428.47   | 8,990.45             | 8,969.77              | 20.68                   | 434.731           |                    |         |
| 3,000.00                                  | 2,994.93            | 2,806.21            | 2,805.80            | 10.54           | 10.87       | 82.79                 | 3,155.51                          | 8,428.98   | 8,989.71             | 8,968.33              | 21.38                   | 420.427           |                    |         |
| 3,100.00                                  | 3,093.26            | 2,886.00            | 2,885.56            | 10.90           | 11.11       | 82.88                 | 3,157.70                          | 8,429.34   | 8,988.79             | 8,966.80              | 21.99                   | 408.755           |                    |         |
| 3,195.07                                  | 3,186.42            | 2,943.76            | 2,943.30            | 11.24           | 11.30       | 82.95                 | 3,159.21                          | 8,429.81   | 8,988.02             | 8,965.51              | 22.51                   | 399.213           |                    |         |
| 3,200.00                                  | 3,191.25            | 2,946.49            | 2,946.03            | 11.26           | 11.30       | 82.95                 | 3,159.27                          | 8,429.84   | 8,987.99             | 8,965.45              | 22.54                   | 398.745           |                    |         |
| 3,300.00                                  | 3,289.08            | 3,108.50            | 3,107.97            | 11.62           | 11.82       | 83.14                 | 3,163.36                          | 8,431.15   | 8,987.10             | 8,963.68              | 23.42                   | 383.787           |                    |         |
| 3,400.00                                  | 3,386.91            | 3,186.50            | 3,185.95            | 11.98           | 12.07       | 83.23                 | 3,165.38                          | 8,431.52   | 8,985.94             | 8,961.91              | 24.03                   | 373.949           |                    |         |
| 3,500.00                                  | 3,484.74            | 3,270.82            | 3,270.24            | 12.35           | 12.34       | 83.33                 | 3,167.58                          | 8,432.09   | 8,985.00             | 8,960.33              | 24.67                   | 364.268           |                    |         |
| 3,600.00                                  | 3,582.58            | 3,364.44            | 3,363.82            | 12.72           | 12.64       | 83.44                 | 3,170.06                          | 8,432.80   | 8,984.19             | 8,958.86              | 25.33                   | 354.619           |                    |         |
| 3,700.00                                  | 3,680.41            | 3,467.38            | 3,466.73            | 13.09           | 12.97       | 83.56                 | 3,172.74                          | 8,433.63   | 8,983.45             | 8,957.42              | 26.04                   | 345.030           |                    |         |
| 3,800.00                                  | 3,778.24            | 3,685.69            | 3,684.98            | 13.46           | 13.68       | 83.82                 | 3,176.88                          | 8,433.16   | 8,981.00             | 8,953.88              | 27.11                   | 331.221           |                    |         |
| 3,900.00                                  | 3,876.08            | 3,731.50            | 3,730.79            | 13.83           | 13.83       | 83.89                 | 3,176.67                          | 8,433.66   | 8,979.43             | 8,951.79              | 27.64                   | 324.913           |                    |         |
| 4,000.00                                  | 3,973.91            | 4,000.00            | 3,800.01            | 14.21           | 14.70       | 83.98                 | 3,177.08                          | 8,434.34   | 8,978.29             | 8,949.40              | 28.89                   | 310.803           |                    |         |
| 4,100.00                                  | 4,071.74            | 3,881.71            | 3,880.97            | 14.58           | 14.32       | 84.07                 | 3,178.47                          | 8,434.76   | 8,977.18             | 8,948.31              | 28.87                   | 310.901           |                    |         |
| 4,200.00                                  | 4,169.57            | 3,940.61            | 3,939.85            | 14.96           | 14.51       | 84.15                 | 3,179.65                          | 8,435.35   | 8,976.61             | 8,947.16              | 29.44                   | 304.883           |                    |         |
| 4,300.00                                  | 4,267.41            | 4,027.81            | 4,027.03            | 15.33           | 14.80       | 84.25                 | 3,181.13                          | 8,436.54   | 8,976.34             | 8,946.24              | 30.11                   | 298.160           |                    |         |
| 4,400.00                                  | 4,365.24            | 4,184.22            | 4,183.42            | 15.71           | 15.31       | 84.45                 | 3,182.77                          | 8,438.64   | 8,975.94             | 8,944.94              | 31.00                   | 289.545           |                    |         |
| 4,500.00                                  | 4,463.07            | 4,260.68            | 4,259.87            | 16.09           | 15.57       | 84.56                 | 3,182.43                          | 8,439.77   | 8,975.22             | 8,943.59              | 31.63                   | 283.750           |                    |         |
| 4,600.00                                  | 4,560.90            | 4,340.15            | 4,339.33            | 16.47           | 15.83       | 84.66                 | 3,183.13                          | 8,440.88   | 8,974.85             | 8,942.58              | 32.27                   | 278.096           |                    |         |
| 4,700.00                                  | 4,658.74            | 4,700.00            | 4,623.23            | 16.85           | 17.03       | 84.90                 | 3,184.42                          | 8,443.16   | 8,974.54             | 8,940.69              | 33.85                   | 265.123           |                    |         |
| 4,800.00                                  | 4,756.57            | 4,622.10            | 4,621.24            | 17.23           | 16.77       | 85.02                 | 3,185.67                          | 8,443.29   | 8,973.22             | 8,939.24              | 33.97                   | 264.145           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                             |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 81-GYRO-NS, 7138-MWD+IGRF |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.00 ft |
| Reference                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 4,900.00                                  | 4,854.40            | 4,671.00            | 4,670.14            | 17.61           | 16.93       | 85.09                 | 3,186.17                          | 8,443.69   | 8,972.44             | 8,937.93              | 34.51                   | 259.962           |                    |         |
| 5,000.00                                  | 4,952.23            | 4,765.98            | 4,765.11            | 17.99           | 17.25       | 85.21                 | 3,187.15                          | 8,444.76   | 8,972.06             | 8,936.84              | 35.21                   | 254.792           |                    |         |
| 5,100.00                                  | 5,050.07            | 4,859.84            | 4,858.96            | 18.37           | 17.56       | 85.33                 | 3,188.29                          | 8,445.68   | 8,971.63             | 8,935.72              | 35.91                   | 249.841           |                    |         |
| 5,200.00                                  | 5,147.90            | 10,290.19           | 7,778.19            | 18.75           | 59.52       | 107.09                | 376.18                            | 8,420.17   | 8,958.45             | 8,883.22              | 75.23                   | 119.083           |                    |         |
| 5,300.00                                  | 5,245.73            | 10,279.66           | 7,777.90            | 19.14           | 59.34       | 107.03                | 386.70                            | 8,420.45   | 8,934.15             | 8,858.52              | 75.63                   | 118.127           |                    |         |
| 5,400.00                                  | 5,343.56            | 10,268.83           | 7,777.63            | 19.52           | 59.15       | 106.95                | 397.52                            | 8,420.73   | 8,910.88             | 8,834.85              | 76.03                   | 117.209           |                    |         |
| 5,500.00                                  | 5,441.40            | 10,257.69           | 7,777.39            | 19.90           | 58.96       | 106.88                | 408.66                            | 8,421.03   | 8,888.65             | 8,812.24              | 76.41                   | 116.332           |                    |         |
| 5,600.00                                  | 5,539.23            | 10,242.00           | 7,777.09            | 20.29           | 58.69       | 106.78                | 424.34                            | 8,421.45   | 8,867.47             | 8,790.76              | 76.71                   | 115.599           |                    |         |
| 5,700.00                                  | 5,637.06            | 10,242.00           | 7,777.09            | 20.67           | 58.69       | 106.78                | 424.34                            | 8,421.45   | 8,847.35             | 8,770.09              | 77.27                   | 114.505           |                    |         |
| 5,800.00                                  | 5,734.90            | 10,225.28           | 7,776.83            | 21.05           | 58.40       | 106.67                | 441.05                            | 8,421.90   | 8,828.29             | 8,750.75              | 77.54                   | 113.856           |                    |         |
| 5,900.00                                  | 5,832.73            | 10,214.79           | 7,776.70            | 21.44           | 58.22       | 106.60                | 451.54                            | 8,422.19   | 8,810.31             | 8,732.40              | 77.91                   | 113.084           |                    |         |
| 6,000.00                                  | 5,930.56            | 10,204.08           | 7,776.58            | 21.83           | 58.04       | 106.53                | 462.24                            | 8,422.49   | 8,793.40             | 8,715.13              | 78.27                   | 112.348           |                    |         |
| 6,100.00                                  | 6,028.39            | 10,193.14           | 7,776.49            | 22.21           | 57.85       | 106.46                | 473.18                            | 8,422.81   | 8,777.57             | 8,698.96              | 78.62                   | 111.647           |                    |         |
| 6,200.00                                  | 6,126.23            | 9,878.66            | 7,771.74            | 22.60           | 52.49       | 104.42                | 787.55                            | 8,427.24   | 8,762.76             | 8,688.87              | 73.89                   | 118.586           |                    |         |
| 6,300.00                                  | 6,224.06            | 9,855.44            | 7,771.06            | 22.98           | 52.10       | 104.27                | 810.77                            | 8,427.20   | 8,748.46             | 8,674.44              | 74.02                   | 118.189           |                    |         |
| 6,400.00                                  | 6,321.89            | 9,834.50            | 7,770.45            | 23.37           | 51.75       | 104.14                | 831.69                            | 8,427.16   | 8,735.24             | 8,661.06              | 74.18                   | 117.756           |                    |         |
| 6,500.00                                  | 6,419.72            | 9,813.50            | 7,769.85            | 23.76           | 51.40       | 104.00                | 852.69                            | 8,427.11   | 8,723.10             | 8,648.77              | 74.33                   | 117.353           |                    |         |
| 6,600.00                                  | 6,517.56            | 9,792.43            | 7,769.25            | 24.14           | 51.05       | 103.86                | 873.75                            | 8,427.05   | 8,712.06             | 8,637.58              | 74.47                   | 116.981           |                    |         |
| 6,700.00                                  | 6,615.39            | 9,771.40            | 7,768.65            | 24.53           | 50.69       | 103.72                | 894.77                            | 8,426.97   | 8,702.10             | 8,627.49              | 74.61                   | 116.635           |                    |         |
| 6,800.00                                  | 6,713.22            | 9,741.38            | 7,767.82            | 24.92           | 50.20       | 103.53                | 924.78                            | 8,426.84   | 8,693.23             | 8,618.64              | 74.59                   | 116.545           |                    |         |
| 6,900.00                                  | 6,811.05            | 9,711.07            | 7,767.01            | 25.30           | 49.69       | 103.33                | 955.08                            | 8,426.66   | 8,685.45             | 8,610.89              | 74.56                   | 116.489           |                    |         |
| 7,000.00                                  | 6,908.89            | 9,680.46            | 7,766.21            | 25.69           | 49.18       | 103.13                | 985.67                            | 8,426.43   | 8,678.75             | 8,604.23              | 74.52                   | 116.468           |                    |         |
| 7,100.00                                  | 7,006.72            | 9,658.99            | 7,765.66            | 26.08           | 48.83       | 102.99                | 1,007.13                          | 8,426.24   | 8,673.14             | 8,598.52              | 74.62                   | 116.235           |                    |         |
| 7,200.00                                  | 7,104.55            | 9,638.70            | 7,765.13            | 26.47           | 48.50       | 102.86                | 1,027.42                          | 8,426.06   | 8,668.64             | 8,593.91              | 74.73                   | 115.998           |                    |         |
| 7,216.87                                  | 7,121.05            | 9,635.28            | 7,765.05            | 26.53           | 48.44       | 102.84                | 1,030.84                          | 8,426.03   | 8,667.99             | 8,593.24              | 74.75                   | 115.961           |                    |         |
| 7,300.00                                  | 7,202.57            | 9,619.40            | 7,764.64            | 26.85           | 48.18       | 102.69                | 1,046.71                          | 8,425.88   | 8,665.05             | 8,590.20              | 74.85                   | 115.765           |                    |         |
| 7,400.00                                  | 7,301.06            | 9,602.96            | 7,764.22            | 27.23           | 47.91       | 102.54                | 1,063.15                          | 8,425.73   | 8,662.02             | 8,587.01              | 75.00                   | 115.489           |                    |         |
| 7,500.00                                  | 7,399.97            | 9,589.41            | 7,763.87            | 27.61           | 47.69       | 102.41                | 1,076.69                          | 8,425.59   | 8,659.54             | 8,584.35              | 75.19                   | 115.170           |                    |         |
| 7,600.00                                  | 7,499.23            | 9,582.00            | 7,763.68            | 27.98           | 47.57       | 102.34                | 1,084.10                          | 8,425.52   | 8,657.65             | 8,582.19              | 75.46                   | 114.729           |                    |         |
| 7,700.00                                  | 7,598.77            | 9,582.00            | 7,763.68            | 28.34           | 47.57       | 102.32                | 1,084.10                          | 8,425.52   | 8,656.35             | 8,580.50              | 75.84                   | 114.137           |                    |         |
| 7,800.00                                  | 7,698.53            | 9,582.00            | 7,763.68            | 28.70           | 47.57       | 102.31                | 1,084.10                          | 8,425.52   | 8,655.64             | 8,579.43              | 76.21                   | 113.582           |                    |         |
| 7,868.25                                  | 7,766.70            | 9,582.00            | 7,763.68            | 28.93           | 47.57       | 102.31                | 1,084.10                          | 8,425.52   | 8,655.50             | 8,579.05              | 76.45                   | 113.224           |                    |         |
| 7,900.00                                  | 7,798.44            | 9,582.00            | 7,763.68            | 29.05           | 47.57       | 102.31                | 1,084.10                          | 8,425.52   | 8,655.53             | 8,578.97              | 76.56                   | 113.061           |                    |         |
| 8,000.00                                  | 7,898.42            | 9,582.00            | 7,763.68            | 29.39           | 47.57       | 102.31                | 1,084.10                          | 8,425.52   | 8,656.02             | 8,579.13              | 76.89                   | 112.575           |                    |         |
| 8,013.58                                  | 7,912.00            | 9,582.00            | 7,763.68            | 29.43           | 47.57       | 89.54                 | 1,084.10                          | 8,425.52   | 8,656.13             | 8,579.20              | 76.94                   | 112.512           |                    |         |
| 8,100.00                                  | 7,998.42            | 9,582.00            | 7,763.68            | 29.73           | 47.57       | 89.54                 | 1,084.10                          | 8,425.52   | 8,657.31             | 8,580.10              | 77.21                   | 112.122           |                    |         |
| 8,200.00                                  | 8,098.42            | 9,582.00            | 7,763.68            | 30.07           | 47.57       | 89.54                 | 1,084.10                          | 8,425.52   | 8,659.76             | 8,582.23              | 77.53                   | 111.699           |                    |         |
| 8,300.00                                  | 8,198.42            | 9,582.00            | 7,763.68            | 30.41           | 47.57       | 89.54                 | 1,084.10                          | 8,425.52   | 8,663.35             | 8,585.52              | 77.83                   | 111.306           |                    |         |
| 8,363.62                                  | 8,262.04            | 9,582.00            | 7,763.68            | 30.62           | 47.57       | 89.54                 | 1,084.10                          | 8,425.52   | 8,666.24             | 8,588.22              | 78.02                   | 111.072           |                    |         |
| 8,400.00                                  | 8,298.40            | 9,582.00            | 7,763.68            | 30.75           | 47.57       | -0.12                 | 1,084.10                          | 8,425.52   | 8,666.95             | 8,588.82              | 78.13                   | 110.933           |                    |         |
| 8,450.00                                  | 8,348.10            | 9,582.00            | 7,763.68            | 30.91           | 47.57       | -0.12                 | 1,084.10                          | 8,425.52   | 8,664.40             | 8,586.14              | 78.26                   | 110.710           |                    |         |
| 8,500.00                                  | 8,397.14            | 9,582.00            | 7,763.68            | 31.07           | 47.57       | -0.12                 | 1,084.10                          | 8,425.52   | 8,657.80             | 8,579.40              | 78.39                   | 110.443           |                    |         |
| 8,550.00                                  | 8,445.15            | 9,582.00            | 7,763.68            | 31.23           | 47.57       | -0.13                 | 1,084.10                          | 8,425.52   | 8,647.18             | 8,568.66              | 78.51                   | 110.137           |                    |         |
| 8,600.00                                  | 8,491.77            | 9,583.13            | 7,763.71            | 31.38           | 47.58       | -0.12                 | 1,082.97                          | 8,425.53   | 8,632.61             | 8,553.96              | 78.64                   | 109.768           |                    |         |
| 8,650.00                                  | 8,536.65            | 9,584.54            | 7,763.75            | 31.52           | 47.61       | -0.12                 | 1,081.55                          | 8,425.55   | 8,614.18             | 8,535.41              | 78.77                   | 109.359           |                    |         |
| 8,700.00                                  | 8,579.43            | 9,585.92            | 7,763.78            | 31.66           | 47.63       | -0.11                 | 1,080.18                          | 8,425.56   | 8,592.01             | 8,513.13              | 78.88                   | 108.920           |                    |         |
| 8,750.00                                  | 8,619.80            | 9,587.23            | 7,763.81            | 31.80           | 47.65       | -0.11                 | 1,078.87                          | 8,425.57   | 8,566.24             | 8,487.25              | 78.99                   | 108.453           |                    |         |
| 8,800.00                                  | 8,657.44            | 9,588.48            | 7,763.85            | 31.93           | 47.67       | -0.10                 | 1,077.62                          | 8,425.59   | 8,537.03             | 8,457.95              | 79.08                   | 107.960           |                    |         |
| 8,850.00                                  | 8,692.08            | 9,589.66            | 7,763.88            | 32.06           | 47.69       | -0.10                 | 1,076.44                          | 8,425.60   | 8,504.57             | 8,425.42              | 79.15                   | 107.445           |                    |         |
| 8,900.00                                  | 8,723.44            | 9,590.75            | 7,763.90            | 32.19           | 47.71       | -0.10                 | 1,075.35                          | 8,425.61   | 8,469.07             | 8,389.85              | 79.22                   | 106.910           |                    |         |
| 8,950.00                                  | 8,751.29            | 9,591.75            | 7,763.93            | 32.34           | 47.73       | -0.10                 | 1,074.36                          | 8,425.62   | 8,430.77             | 8,351.50              | 79.27                   | 106.357           |                    |         |
| 9,000.00                                  | 8,775.42            | 9,592.64            | 7,763.95            | 32.50           | 47.74       | -0.10                 | 1,073.46                          | 8,425.63   | 8,389.92             | 8,310.61              | 79.31                   | 105.788           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                             |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |         | Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 8H - Original Hole - Actuals |         | Offset Site Error: 5.00 ft |  |
|-------------------------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|---------|-----------------------------------------------------------------------------|---------|----------------------------|--|
| Survey Program: 81-GYRO-NS, 7138-MWD+IGRF |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |         | Offset Well Error: 0.00 ft                                                  |         |                            |  |
| Reference                                 |                | Offset         |                | Semi Major Axis |        |                   | Distance               |                 |                  |                    |                   |         |                                                                             | Warning |                            |  |
| Measured Depth                            | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor |         |                                                                             |         |                            |  |
| (ft)                                      | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft)      | (ft)             | (ft)               | (ft)              |         |                                                                             |         |                            |  |
| 9,050.00                                  | 8,795.64       | 9,593.43       | 7,763.97       | 32.67           | 47.75  | -0.10             | 1,072.67               | 8,425.63        | 8,346.79         | 8,267.45           | 79.34             | 105.205 |                                                                             |         |                            |  |
| 9,100.00                                  | 8,811.80       | 9,594.11       | 7,763.99       | 32.87           | 47.76  | -0.11             | 1,071.99               | 8,425.64        | 8,301.69         | 8,222.33           | 79.36             | 104.610 |                                                                             |         |                            |  |
| 9,150.00                                  | 8,823.77       | 9,594.67       | 7,764.01       | 33.10           | 47.77  | -0.13             | 1,071.43               | 8,425.65        | 8,254.92         | 8,175.55           | 79.37             | 104.005 |                                                                             |         |                            |  |
| 9,200.00                                  | 8,831.47       | 9,595.11       | 7,764.02       | 33.34           | 47.78  | -0.16             | 1,070.99               | 8,425.65        | 8,206.82         | 8,127.44           | 79.38             | 103.392 |                                                                             |         |                            |  |
| 9,250.00                                  | 8,834.84       | 9,595.42       | 7,764.02       | 33.60           | 47.79  | -0.25             | 1,070.68               | 8,425.65        | 8,157.73         | 8,078.35           | 79.38             | 102.772 |                                                                             |         |                            |  |
| 9,263.62                                  | 8,835.00       | 9,595.48       | 7,764.03       | 33.67           | 47.79  | -0.29             | 1,070.62               | 8,425.65        | 8,144.23         | 8,064.85           | 79.38             | 102.601 |                                                                             |         |                            |  |
| 9,300.00                                  | 8,835.00       | 9,595.64       | 7,764.03       | 33.88           | 47.79  | -0.28             | 1,070.46               | 8,425.66        | 8,108.13         | 8,028.75           | 79.38             | 102.149 |                                                                             |         |                            |  |
| 9,400.00                                  | 8,835.00       | 9,596.07       | 7,764.04       | 34.53           | 47.80  | -0.26             | 1,070.03               | 8,425.66        | 8,008.90         | 7,929.53           | 79.37             | 100.908 |                                                                             |         |                            |  |
| 9,500.00                                  | 8,835.00       | 9,596.50       | 7,764.05       | 35.30           | 47.80  | -0.23             | 1,069.61               | 8,425.66        | 7,909.68         | 7,830.32           | 79.36             | 99.665  |                                                                             |         |                            |  |
| 9,600.00                                  | 8,835.00       | 9,596.92       | 7,764.06       | 36.17           | 47.81  | -0.21             | 1,069.18               | 8,425.67        | 7,810.49         | 7,731.14           | 79.36             | 98.422  |                                                                             |         |                            |  |
| 9,700.00                                  | 8,835.00       | 9,597.35       | 7,764.07       | 37.13           | 47.82  | -0.18             | 1,068.76               | 8,425.67        | 7,711.32         | 7,631.97           | 79.35             | 97.178  |                                                                             |         |                            |  |
| 9,800.00                                  | 8,835.00       | 9,597.77       | 7,764.08       | 38.18           | 47.82  | -0.16             | 1,068.33               | 8,425.68        | 7,612.17         | 7,532.83           | 79.35             | 95.934  |                                                                             |         |                            |  |
| 9,900.00                                  | 8,835.00       | 9,598.19       | 7,764.10       | 39.31           | 47.83  | -0.13             | 1,067.91               | 8,425.68        | 7,513.05         | 7,433.70           | 79.34             | 94.689  |                                                                             |         |                            |  |
| 10,000.00                                 | 8,835.00       | 9,598.61       | 7,764.11       | 40.51           | 47.84  | -0.11             | 1,067.49               | 8,425.68        | 7,413.95         | 7,334.60           | 79.34             | 93.443  |                                                                             |         |                            |  |
| 10,100.00                                 | 8,835.00       | 9,599.03       | 7,764.12       | 41.78           | 47.85  | -0.09             | 1,067.07               | 8,425.69        | 7,314.87         | 7,235.53           | 79.34             | 92.197  |                                                                             |         |                            |  |
| 10,200.00                                 | 8,835.00       | 9,599.45       | 7,764.13       | 43.10           | 47.85  | -0.06             | 1,066.66               | 8,425.69        | 7,215.82         | 7,136.48           | 79.34             | 90.951  |                                                                             |         |                            |  |
| 10,300.00                                 | 8,835.00       | 9,599.87       | 7,764.14       | 44.49           | 47.86  | -0.04             | 1,066.24               | 8,425.70        | 7,116.79         | 7,037.45           | 79.34             | 89.704  |                                                                             |         |                            |  |
| 10,400.00                                 | 8,835.00       | 9,600.28       | 7,764.15       | 45.92           | 47.87  | -0.01             | 1,065.82               | 8,425.70        | 7,017.79         | 6,938.45           | 79.34             | 88.456  |                                                                             |         |                            |  |
| 10,500.00                                 | 8,835.00       | 9,600.69       | 7,764.16       | 47.39           | 47.87  | 0.01              | 1,065.41               | 8,425.70        | 6,918.82         | 6,839.48           | 79.34             | 87.209  |                                                                             |         |                            |  |
| 10,600.00                                 | 8,835.00       | 9,601.11       | 7,764.17       | 48.91           | 47.88  | 0.03              | 1,065.00               | 8,425.71        | 6,819.88         | 6,740.54           | 79.34             | 85.961  |                                                                             |         |                            |  |
| 10,700.00                                 | 8,835.00       | 9,601.52       | 7,764.18       | 50.47           | 47.89  | 0.06              | 1,064.59               | 8,425.71        | 6,720.97         | 6,641.63           | 79.34             | 84.712  |                                                                             |         |                            |  |
| 10,800.00                                 | 8,835.00       | 9,601.93       | 7,764.19       | 52.06           | 47.89  | 0.08              | 1,064.18               | 8,425.72        | 6,622.10         | 6,542.76           | 79.34             | 83.464  |                                                                             |         |                            |  |
| 10,900.00                                 | 8,835.00       | 9,602.33       | 7,764.20       | 53.68           | 47.90  | 0.10              | 1,063.77               | 8,425.72        | 6,523.26         | 6,443.91           | 79.34             | 82.215  |                                                                             |         |                            |  |
| 11,000.00                                 | 8,835.00       | 9,602.74       | 7,764.21       | 55.32           | 47.91  | 0.13              | 1,063.36               | 8,425.72        | 6,424.45         | 6,345.10           | 79.35             | 80.967  |                                                                             |         |                            |  |
| 11,100.00                                 | 8,835.00       | 9,603.15       | 7,764.22       | 57.00           | 47.91  | 0.15              | 1,062.96               | 8,425.73        | 6,325.68         | 6,246.33           | 79.35             | 79.718  |                                                                             |         |                            |  |
| 11,200.00                                 | 8,835.00       | 9,603.55       | 7,764.23       | 58.70           | 47.92  | 0.17              | 1,062.55               | 8,425.73        | 6,226.95         | 6,147.60           | 79.36             | 78.469  |                                                                             |         |                            |  |
| 11,300.00                                 | 8,835.00       | 9,603.95       | 7,764.24       | 60.41           | 47.93  | 0.20              | 1,062.15               | 8,425.74        | 6,128.27         | 6,048.91           | 79.36             | 77.220  |                                                                             |         |                            |  |
| 11,400.00                                 | 8,835.00       | 9,604.36       | 7,764.25       | 62.15           | 47.93  | 0.22              | 1,061.75               | 8,425.74        | 6,029.62         | 5,950.26           | 79.37             | 75.971  |                                                                             |         |                            |  |
| 11,500.00                                 | 8,835.00       | 9,604.76       | 7,764.26       | 63.91           | 47.94  | 0.24              | 1,061.35               | 8,425.74        | 5,931.02         | 5,851.65           | 79.37             | 74.723  |                                                                             |         |                            |  |
| 11,600.00                                 | 8,835.00       | 9,605.15       | 7,764.27       | 65.69           | 47.95  | 0.27              | 1,060.95               | 8,425.75        | 5,832.47         | 5,753.09           | 79.38             | 73.474  |                                                                             |         |                            |  |
| 11,700.00                                 | 8,835.00       | 9,605.55       | 7,764.28       | 67.47           | 47.95  | 0.29              | 1,060.55               | 8,425.75        | 5,733.97         | 5,654.58           | 79.39             | 72.226  |                                                                             |         |                            |  |
| 11,800.00                                 | 8,835.00       | 9,605.95       | 7,764.29       | 69.28           | 47.96  | 0.31              | 1,060.16               | 8,425.75        | 5,635.52         | 5,556.12           | 79.40             | 70.978  |                                                                             |         |                            |  |
| 11,900.00                                 | 8,835.00       | 9,606.34       | 7,764.30       | 71.09           | 47.97  | 0.33              | 1,059.76               | 8,425.76        | 5,537.13         | 5,457.72           | 79.41             | 69.730  |                                                                             |         |                            |  |
| 12,000.00                                 | 8,835.00       | 9,606.74       | 7,764.31       | 72.92           | 47.97  | 0.36              | 1,059.37               | 8,425.76        | 5,438.80         | 5,359.38           | 79.42             | 68.483  |                                                                             |         |                            |  |
| 12,100.00                                 | 8,835.00       | 9,607.13       | 7,764.32       | 74.76           | 47.98  | 0.38              | 1,058.98               | 8,425.77        | 5,340.52         | 5,261.09           | 79.43             | 67.236  |                                                                             |         |                            |  |
| 12,200.00                                 | 8,835.00       | 9,607.52       | 7,764.33       | 76.61           | 47.98  | 0.40              | 1,058.58               | 8,425.77        | 5,242.32         | 5,162.87           | 79.44             | 65.990  |                                                                             |         |                            |  |
| 12,300.00                                 | 8,835.00       | 9,607.91       | 7,764.34       | 78.47           | 47.99  | 0.42              | 1,058.19               | 8,425.77        | 5,144.18         | 5,064.72           | 79.45             | 64.744  |                                                                             |         |                            |  |
| 12,400.00                                 | 8,835.00       | 9,608.30       | 7,764.35       | 80.34           | 48.00  | 0.45              | 1,057.81               | 8,425.78        | 5,046.11         | 4,966.65           | 79.47             | 63.498  |                                                                             |         |                            |  |
| 12,500.00                                 | 8,835.00       | 9,608.69       | 7,764.36       | 82.22           | 48.00  | 0.47              | 1,057.42               | 8,425.78        | 4,948.13         | 4,868.64           | 79.48             | 62.253  |                                                                             |         |                            |  |
| 12,600.00                                 | 8,835.00       | 9,609.08       | 7,764.37       | 84.11           | 48.01  | 0.49              | 1,057.03               | 8,425.78        | 4,850.22         | 4,770.72           | 79.50             | 61.009  |                                                                             |         |                            |  |
| 12,700.00                                 | 8,835.00       | 9,609.46       | 7,764.38       | 86.00           | 48.02  | 0.51              | 1,056.65               | 8,425.79        | 4,752.40         | 4,672.89           | 79.52             | 59.766  |                                                                             |         |                            |  |
| 12,800.00                                 | 8,835.00       | 9,609.85       | 7,764.39       | 87.90           | 48.02  | 0.54              | 1,056.26               | 8,425.79        | 4,654.68         | 4,575.14           | 79.54             | 58.523  |                                                                             |         |                            |  |
| 12,900.00                                 | 8,835.00       | 9,610.23       | 7,764.40       | 89.81           | 48.03  | 0.56              | 1,055.88               | 8,425.80        | 4,557.05         | 4,477.49           | 79.56             | 57.281  |                                                                             |         |                            |  |
| 13,000.00                                 | 8,835.00       | 9,610.61       | 7,764.41       | 91.72           | 48.04  | 0.58              | 1,055.50               | 8,425.80        | 4,459.53         | 4,379.95           | 79.58             | 56.040  |                                                                             |         |                            |  |
| 13,100.00                                 | 8,835.00       | 9,610.99       | 7,764.42       | 93.64           | 48.04  | 0.60              | 1,055.12               | 8,425.80        | 4,362.12         | 4,282.52           | 79.60             | 54.799  |                                                                             |         |                            |  |
| 13,200.00                                 | 8,835.00       | 9,611.37       | 7,764.43       | 95.56           | 48.05  | 0.62              | 1,054.74               | 8,425.81        | 4,264.83         | 4,185.20           | 79.63             | 53.560  |                                                                             |         |                            |  |
| 13,300.00                                 | 8,835.00       | 9,611.75       | 7,764.44       | 97.49           | 48.05  | 0.64              | 1,054.36               | 8,425.81        | 4,167.67         | 4,088.02           | 79.65             | 52.322  |                                                                             |         |                            |  |
| 13,400.00                                 | 8,835.00       | 9,612.12       | 7,764.45       | 99.42           | 48.06  | 0.67              | 1,053.98               | 8,425.81        | 4,070.65         | 3,990.96           | 79.68             | 51.085  |                                                                             |         |                            |  |
| 13,500.00                                 | 8,835.00       | 9,612.50       | 7,764.46       | 101.36          | 48.07  | 0.69              | 1,053.61               | 8,425.82        | 3,973.77         | 3,894.05           | 79.72             | 49.849  |                                                                             |         |                            |  |
| 13,600.00                                 | 8,835.00       | 9,612.87       | 7,764.47       | 103.30          | 48.07  | 0.71              | 1,053.23               | 8,425.82        | 3,877.05         | 3,797.30           | 79.75             | 48.615  |                                                                             |         |                            |  |
| 13,700.00                                 | 8,835.00       | 9,613.25       | 7,764.48       | 105.25          | 48.08  | 0.73              | 1,052.86               | 8,425.82        | 3,780.51         | 3,700.72           | 79.79             | 47.381  |                                                                             |         |                            |  |
| 13,800.00                                 | 8,835.00       | 9,613.62       | 7,764.49       | 107.20          | 48.08  | 0.75              | 1,052.49               | 8,425.83        | 3,684.14         | 3,604.31           | 79.83             | 46.150  |                                                                             |         |                            |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                             |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 81-GYRO-NS, 7138-MWD+IGRF |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.00 ft |
| Reference                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 13,900.00                                 | 8,835.00            | 9,613.99            | 7,764.50            | 109.15          | 48.09       | 0.77                  | 1,052.12                          | 8,425.83   | 3,587.98             | 3,508.10              | 79.88                   | 44.920            |                    |         |
| 14,000.00                                 | 8,835.00            | 9,614.36            | 7,764.51            | 111.10          | 48.10       | 0.79                  | 1,051.75                          | 8,425.84   | 3,492.03             | 3,412.11              | 79.93                   | 43.691            |                    |         |
| 14,100.00                                 | 8,835.00            | 9,614.73            | 7,764.52            | 113.06          | 48.10       | 0.82                  | 1,051.38                          | 8,425.84   | 3,396.32             | 3,316.34              | 79.98                   | 42.464            |                    |         |
| 14,200.00                                 | 8,835.00            | 9,615.10            | 7,764.53            | 115.03          | 48.11       | 0.84                  | 1,051.01                          | 8,425.84   | 3,300.86             | 3,220.82              | 80.04                   | 41.239            |                    |         |
| 14,300.00                                 | 8,835.00            | 9,615.46            | 7,764.54            | 116.99          | 48.12       | 0.86                  | 1,050.65                          | 8,425.85   | 3,205.67             | 3,125.57              | 80.11                   | 40.017            |                    |         |
| 14,400.00                                 | 8,835.00            | 9,615.83            | 7,764.55            | 118.96          | 48.12       | 0.88                  | 1,050.28                          | 8,425.85   | 3,110.79             | 3,030.61              | 80.18                   | 38.797            |                    |         |
| 14,500.00                                 | 8,835.00            | 9,616.19            | 7,764.56            | 120.93          | 48.13       | 0.90                  | 1,049.92                          | 8,425.85   | 3,016.24             | 2,935.98              | 80.26                   | 37.579            |                    |         |
| 14,600.00                                 | 8,835.00            | 9,616.56            | 7,764.57            | 122.90          | 48.13       | 0.92                  | 1,049.55                          | 8,425.86   | 2,922.05             | 2,841.70              | 80.36                   | 36.364            |                    |         |
| 14,700.00                                 | 8,835.00            | 9,616.92            | 7,764.58            | 124.88          | 48.14       | 0.94                  | 1,049.19                          | 8,425.86   | 2,828.27             | 2,747.81              | 80.46                   | 35.152            |                    |         |
| 14,800.00                                 | 8,835.00            | 9,617.28            | 7,764.59            | 126.86          | 48.14       | 0.96                  | 1,048.83                          | 8,425.86   | 2,734.92             | 2,654.35              | 80.57                   | 33.944            |                    |         |
| 14,900.00                                 | 8,835.00            | 9,617.64            | 7,764.59            | 128.84          | 48.15       | 0.98                  | 1,048.47                          | 8,425.87   | 2,642.06             | 2,561.36              | 80.70                   | 32.740            |                    |         |
| 15,000.00                                 | 8,835.00            | 9,618.00            | 7,764.60            | 130.82          | 48.16       | 1.00                  | 1,048.11                          | 8,425.87   | 2,549.73             | 2,468.89              | 80.84                   | 31.540            |                    |         |
| 15,100.00                                 | 8,835.00            | 9,618.36            | 7,764.61            | 132.80          | 48.16       | 1.02                  | 1,047.75                          | 8,425.87   | 2,458.01             | 2,377.01              | 81.00                   | 30.346            |                    |         |
| 15,200.00                                 | 8,835.00            | 9,618.71            | 7,764.62            | 134.79          | 48.17       | 1.04                  | 1,047.40                          | 8,425.88   | 2,366.96             | 2,285.78              | 81.18                   | 29.158            |                    |         |
| 15,300.00                                 | 8,835.00            | 9,619.07            | 7,764.63            | 136.78          | 48.17       | 1.07                  | 1,047.04                          | 8,425.88   | 2,276.66             | 2,195.28              | 81.38                   | 27.977            |                    |         |
| 15,400.00                                 | 8,835.00            | 9,619.42            | 7,764.64            | 138.76          | 48.18       | 1.09                  | 1,046.69                          | 8,425.88   | 2,187.21             | 2,105.61              | 81.60                   | 26.804            |                    |         |
| 15,500.00                                 | 8,835.00            | 9,619.78            | 7,764.65            | 140.76          | 48.19       | 1.11                  | 1,046.33                          | 8,425.89   | 2,098.70             | 2,016.85              | 81.85                   | 25.641            |                    |         |
| 15,600.00                                 | 8,835.00            | 9,620.13            | 7,764.66            | 142.75          | 48.19       | 1.13                  | 1,045.98                          | 8,425.89   | 2,011.28             | 1,929.15              | 82.13                   | 24.490            |                    |         |
| 15,700.00                                 | 8,835.00            | 9,620.48            | 7,764.67            | 144.74          | 48.20       | 1.15                  | 1,045.63                          | 8,425.89   | 1,925.08             | 1,842.64              | 82.44                   | 23.353            |                    |         |
| 15,800.00                                 | 8,835.00            | 9,620.83            | 7,764.68            | 146.74          | 48.20       | 1.17                  | 1,045.28                          | 8,425.90   | 1,840.27             | 1,757.50              | 82.78                   | 22.232            |                    |         |
| 15,900.00                                 | 8,835.00            | 9,621.18            | 7,764.69            | 148.73          | 48.21       | 1.19                  | 1,044.93                          | 8,425.90   | 1,757.07             | 1,673.92              | 83.15                   | 21.132            |                    |         |
| 16,000.00                                 | 8,835.00            | 9,621.53            | 7,764.69            | 150.73          | 48.21       | 1.21                  | 1,044.58                          | 8,425.90   | 1,675.70             | 1,592.15              | 83.55                   | 20.056            |                    |         |
| 16,100.00                                 | 8,835.00            | 9,621.88            | 7,764.70            | 152.73          | 48.22       | 1.23                  | 1,044.24                          | 8,425.91   | 1,596.45             | 1,512.46              | 83.99                   | 19.009            |                    |         |
| 16,200.00                                 | 8,835.00            | 9,622.22            | 7,764.71            | 154.73          | 48.23       | 1.25                  | 1,043.89                          | 8,425.91   | 1,519.65             | 1,435.21              | 84.44                   | 17.997            |                    |         |
| 16,300.00                                 | 8,835.00            | 9,622.57            | 7,764.72            | 156.73          | 48.23       | 1.27                  | 1,043.55                          | 8,425.91   | 1,445.69             | 1,360.78              | 84.91                   | 17.027            |                    |         |
| 16,400.00                                 | 8,835.00            | 9,622.91            | 7,764.73            | 158.74          | 48.24       | 1.29                  | 1,043.20                          | 8,425.92   | 1,375.02             | 1,289.65              | 85.37                   | 16.107            |                    |         |
| 16,500.00                                 | 8,835.00            | 9,623.25            | 7,764.74            | 160.74          | 48.24       | 1.31                  | 1,042.86                          | 8,425.92   | 1,308.19             | 1,222.39              | 85.81                   | 15.246            |                    |         |
| 16,600.00                                 | 8,835.00            | 9,623.59            | 7,764.75            | 162.74          | 48.25       | 1.33                  | 1,042.52                          | 8,425.92   | 1,245.81             | 1,159.63              | 86.18                   | 14.456            |                    |         |
| 16,700.00                                 | 8,835.00            | 9,623.94            | 7,764.76            | 164.75          | 48.25       | 1.34                  | 1,042.18                          | 8,425.93   | 1,188.58             | 1,102.12              | 86.47                   | 13.746            |                    |         |
| 16,800.00                                 | 8,835.00            | 9,624.28            | 7,764.76            | 166.76          | 48.26       | 1.36                  | 1,041.84                          | 8,425.93   | 1,137.28             | 1,050.66              | 86.63                   | 13.129            |                    |         |
| 16,900.00                                 | 8,835.00            | 9,624.61            | 7,764.77            | 168.77          | 48.27       | 1.38                  | 1,041.50                          | 8,425.93   | 1,092.75             | 1,006.11              | 86.63                   | 12.613            |                    |         |
| 17,000.00                                 | 8,835.00            | 9,624.95            | 7,764.78            | 170.77          | 48.27       | 1.40                  | 1,041.16                          | 8,425.93   | 1,055.83             | 969.32                | 86.51                   | 12.204            |                    |         |
| 17,100.00                                 | 8,835.00            | 9,625.29            | 7,764.79            | 172.78          | 48.28       | 1.42                  | 1,040.82                          | 8,425.94   | 1,027.35             | 941.01                | 86.34                   | 11.898            |                    |         |
| 17,200.00                                 | 8,835.00            | 9,625.63            | 7,764.80            | 174.79          | 48.28       | 1.44                  | 1,040.49                          | 8,425.94   | 1,008.03             | 921.71                | 86.33                   | 11.677            |                    |         |
| 17,300.00                                 | 8,835.00            | 9,625.96            | 7,764.81            | 176.81          | 48.29       | 1.46                  | 1,040.15                          | 8,425.94   | 998.40               | 911.67                | 86.74                   | 11.511            |                    |         |
| 17,346.61                                 | 8,835.00            | 9,626.12            | 7,764.81            | 177.74          | 48.29       | 1.47                  | 1,040.00                          | 8,425.95   | 997.32               | 910.17                | 87.14                   | 11.445 CC, ES     |                    |         |
| 17,400.00                                 | 8,835.00            | 9,626.29            | 7,764.82            | 178.82          | 48.29       | 1.48                  | 1,039.82                          | 8,425.95   | 998.74               | 910.96                | 87.79                   | 11.377            |                    |         |
| 17,500.00                                 | 8,835.00            | 9,626.63            | 7,764.82            | 180.83          | 48.30       | 1.50                  | 1,039.49                          | 8,425.95   | 1,009.04             | 919.61                | 89.43                   | 11.282            |                    |         |
| 17,600.00                                 | 8,835.00            | 9,626.96            | 7,764.83            | 182.84          | 48.30       | 1.52                  | 1,039.16                          | 8,425.95   | 1,029.00             | 937.62                | 91.39                   | 11.260 SF         |                    |         |
| 17,700.00                                 | 8,835.00            | 9,627.29            | 7,764.84            | 184.86          | 48.31       | 1.54                  | 1,038.82                          | 8,425.96   | 1,058.08             | 964.76                | 93.31                   | 11.339            |                    |         |
| 17,800.00                                 | 8,835.00            | 9,627.62            | 7,764.85            | 186.87          | 48.31       | 1.56                  | 1,038.49                          | 8,425.96   | 1,095.54             | 1,000.54              | 95.00                   | 11.532            |                    |         |
| 17,900.00                                 | 8,835.00            | 9,627.95            | 7,764.86            | 188.89          | 48.32       | 1.58                  | 1,038.17                          | 8,425.96   | 1,140.56             | 1,044.22              | 96.34                   | 11.839            |                    |         |
| 18,000.00                                 | 8,835.00            | 9,628.28            | 7,764.87            | 190.91          | 48.33       | 1.59                  | 1,037.84                          | 8,425.97   | 1,192.29             | 1,094.96              | 97.33                   | 12.250            |                    |         |
| 18,100.00                                 | 8,835.00            | 9,628.60            | 7,764.88            | 192.92          | 48.33       | 1.61                  | 1,037.51                          | 8,425.97   | 1,249.89             | 1,151.90              | 97.99                   | 12.755            |                    |         |
| 18,200.00                                 | 8,835.00            | 9,628.93            | 7,764.88            | 194.94          | 48.34       | 1.63                  | 1,037.18                          | 8,425.97   | 1,312.60             | 1,214.20              | 98.39                   | 13.340            |                    |         |
| 18,300.00                                 | 8,835.00            | 9,629.26            | 7,764.89            | 196.96          | 48.34       | 1.65                  | 1,036.86                          | 8,425.97   | 1,379.71             | 1,281.12              | 98.58                   | 13.996            |                    |         |
| 18,400.00                                 | 8,835.00            | 9,629.58            | 7,764.90            | 198.98          | 48.35       | 1.67                  | 1,036.53                          | 8,425.98   | 1,450.61             | 1,352.00              | 98.61                   | 14.711            |                    |         |
| 18,500.00                                 | 8,835.00            | 9,629.90            | 7,764.91            | 201.00          | 48.35       | 1.69                  | 1,036.21                          | 8,425.98   | 1,524.78             | 1,426.25              | 98.52                   | 15.477            |                    |         |
| 18,600.00                                 | 8,835.00            | 9,630.23            | 7,764.92            | 203.02          | 48.36       | 1.71                  | 1,035.89                          | 8,425.98   | 1,601.75             | 1,503.41              | 98.35                   | 16.287            |                    |         |
| 18,700.00                                 | 8,835.00            | 9,630.55            | 7,764.93            | 205.04          | 48.36       | 1.72                  | 1,035.57                          | 8,425.99   | 1,681.16             | 1,583.04              | 98.12                   | 17.134            |                    |         |
| 18,800.00                                 | 8,835.00            | 9,630.87            | 7,764.93            | 207.06          | 48.37       | 1.74                  | 1,035.25                          | 8,425.99   | 1,762.66             | 1,664.80              | 97.86                   | 18.012            |                    |         |
| 18,900.00                                 | 8,835.00            | 9,631.19            | 7,764.94            | 209.08          | 48.37       | 1.76                  | 1,034.93                          | 8,425.99   | 1,845.98             | 1,748.40              | 97.58                   | 18.918            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b>   |                        | Sec 13-T21S-R27E - Lone Tree Draw 13 State Com 8H - Original Hole - Actuals |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 5.00 ft |
|------------------------|------------------------|-----------------------------------------------------------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|---------|
| <b>Survey Program:</b> |                        | 81-GYRO-NS, 7138-MWD+IGRF                                                   |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 0.00 ft |
| Reference              |                        | Offset                                                                      |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                           | Warning |
| Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Measured Depth<br>(ft)                                                      | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |         |
| 19,000.00              | 8,835.00               | 9,631.51                                                                    | 7,764.95               | 211.10            | 48.38          | 1.78                        | 1,034.61                                | 8,426.00      | 1,930.89                   | 1,833.60                    | 97.29                         | 19.847                    |         |
| 19,100.00              | 8,835.00               | 9,631.82                                                                    | 7,764.96               | 213.12            | 48.38          | 1.80                        | 1,034.29                                | 8,426.00      | 2,017.17                   | 1,920.18                    | 97.00                         | 20.796                    |         |
| 19,200.00              | 8,835.00               | 9,632.14                                                                    | 7,764.97               | 215.15            | 48.39          | 1.82                        | 1,033.97                                | 8,426.00      | 2,104.68                   | 2,007.97                    | 96.71                         | 21.762                    |         |
| 19,308.27              | 8,835.00               | 9,632.48                                                                    | 7,764.98               | 217.34            | 48.39          | 1.84                        | 1,033.63                                | 8,426.00      | 2,200.62                   | 2,104.20                    | 96.41                         | 22.825                    |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 4452-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                                          | 0.00                | 0.00                | 0.00                | 0.50            | 5.02        | 65.66                 | 3,104.84                          | 6,862.82   | 7,532.72             |                       |                         |                   |                    |         |
| 100.00                                        | 100.00              | 26.32               | 26.32               | 0.52            | 5.03        | 65.66                 | 3,104.87                          | 6,862.84   | 7,532.53             | 7,526.98              | 5.54                    | 1,358.969         |                    |         |
| 200.00                                        | 200.00              | 100.00              | 100.00              | 0.70            | 5.03        | 65.65                 | 3,105.30                          | 6,863.03   | 7,532.97             | 7,527.25              | 5.73                    | 1,314.928         |                    |         |
| 300.00                                        | 300.00              | 213.72              | 213.71              | 0.99            | 5.05        | 65.65                 | 3,106.12                          | 6,863.35   | 7,533.55             | 7,527.51              | 6.04                    | 1,247.224         |                    |         |
| 400.00                                        | 400.00              | 278.77              | 278.76              | 1.31            | 5.08        | 65.65                 | 3,106.84                          | 6,863.51   | 7,534.19             | 7,527.80              | 6.39                    | 1,178.854         |                    |         |
| 500.00                                        | 500.00              | 392.99              | 392.96              | 1.65            | 5.16        | 65.63                 | 3,108.72                          | 6,863.67   | 7,535.01             | 7,528.21              | 6.80                    | 1,107.456         |                    |         |
| 600.00                                        | 600.00              | 507.17              | 507.13              | 1.99            | 5.26        | 65.62                 | 3,110.31                          | 6,863.62   | 7,535.55             | 7,528.30              | 7.25                    | 1,038.888         |                    |         |
| 700.00                                        | 700.00              | 576.27              | 576.23              | 2.34            | 5.34        | 65.62                 | 3,111.23                          | 6,863.72   | 7,536.22             | 7,528.55              | 7.68                    | 981.390           |                    |         |
| 800.00                                        | 800.00              | 675.80              | 675.74              | 2.69            | 5.47        | 65.60                 | 3,112.95                          | 6,863.96   | 7,537.15             | 7,528.99              | 8.16                    | 923.792           |                    |         |
| 900.00                                        | 900.00              | 788.20              | 788.12              | 3.04            | 5.64        | 65.59                 | 3,115.06                          | 6,863.97   | 7,537.94             | 7,529.26              | 8.68                    | 868.433           |                    |         |
| 1,000.00                                      | 1,000.00            | 858.90              | 858.82              | 3.40            | 5.75        | 65.58                 | 3,116.22                          | 6,864.11   | 7,538.81             | 7,529.65              | 9.15                    | 823.845           |                    |         |
| 1,100.00                                      | 1,100.00            | 1,100.00            | 975.00              | 3.75            | 6.21        | 65.57                 | 3,118.50                          | 6,864.35   | 7,539.81             | 7,529.85              | 9.96                    | 756.712           |                    |         |
| 1,200.00                                      | 1,200.00            | 1,193.56            | 1,193.41            | 4.11            | 6.41        | 65.54                 | 3,122.09                          | 6,862.56   | 7,539.56             | 7,529.04              | 10.52                   | 716.874           |                    |         |
| 1,300.00                                      | 1,300.00            | 1,315.79            | 1,315.61            | 4.46            | 6.68        | 65.52                 | 3,123.48                          | 6,860.74   | 7,538.67             | 7,527.52              | 11.15                   | 676.318           |                    |         |
| 1,400.00                                      | 1,400.00            | 1,400.83            | 1,400.65            | 4.82            | 6.88        | 65.51                 | 3,124.11                          | 6,859.63   | 7,537.78             | 7,526.08              | 11.70                   | 644.140           |                    |         |
| 1,500.00                                      | 1,500.00            | 1,526.30            | 1,526.10            | 5.18            | 7.19        | 65.50                 | 3,125.20                          | 6,857.78   | 7,536.79             | 7,524.42              | 12.36                   | 609.531           |                    |         |
| 1,600.00                                      | 1,600.00            | 1,627.12            | 1,626.90            | 5.53            | 7.45        | 65.49                 | 3,126.42                          | 6,855.94   | 7,535.64             | 7,522.66              | 12.98                   | 580.615           |                    |         |
| 1,700.00                                      | 1,700.00            | 1,700.00            | 1,764.64            | 5.89            | 7.64        | 65.47                 | 3,127.99                          | 6,853.19   | 7,534.31             | 7,520.78              | 13.53                   | 557.030           |                    |         |
| 1,800.00                                      | 1,800.00            | 8,019.91            | 4,987.55            | 6.25            | 50.60       | 91.38                 | -163.37                           | 6,790.81   | 7,528.65             | 7,475.85              | 52.80                   | 142.600           |                    |         |
| 1,900.00                                      | 1,900.00            | 8,019.61            | 4,987.56            | 6.61            | 50.60       | 91.38                 | -163.06                           | 6,790.81   | 7,486.07             | 7,432.75              | 53.33                   | 140.384           |                    |         |
| 2,000.00                                      | 2,000.00            | 8,019.30            | 4,987.56            | 6.96            | 50.60       | 91.37                 | -162.76                           | 6,790.82   | 7,444.60             | 7,390.74              | 53.86                   | 138.229           |                    |         |
| 2,100.00                                      | 2,099.99            | 8,018.45            | 4,987.56            | 7.32            | 50.58       | 104.57                | -161.91                           | 6,790.84   | 7,404.44             | 7,350.06              | 54.38                   | 136.157           |                    |         |
| 2,200.00                                      | 2,199.96            | 8,016.52            | 4,987.57            | 7.68            | 50.56       | 104.96                | -159.97                           | 6,790.88   | 7,365.82             | 7,310.93              | 54.89                   | 134.188           |                    |         |
| 2,300.00                                      | 2,299.86            | 8,013.48            | 4,987.59            | 8.04            | 50.52       | 105.32                | -156.94                           | 6,790.95   | 7,328.78             | 7,273.39              | 55.39                   | 132.317           |                    |         |
| 2,400.00                                      | 2,399.68            | 8,009.34            | 4,987.61            | 8.39            | 50.46       | 105.65                | -152.80                           | 6,791.04   | 7,293.36             | 7,237.49              | 55.87                   | 130.544           |                    |         |
| 2,500.00                                      | 2,499.37            | 8,004.09            | 4,987.63            | 8.75            | 50.39       | 105.95                | -147.55                           | 6,791.16   | 7,259.58             | 7,203.24              | 56.33                   | 128.867           |                    |         |
| 2,600.00                                      | 2,598.90            | 7,997.73            | 4,987.67            | 9.11            | 50.30       | 106.22                | -141.19                           | 6,791.31   | 7,227.47             | 7,170.69              | 56.78                   | 127.283           |                    |         |
| 2,700.00                                      | 2,698.26            | 7,995.18            | 4,987.68            | 9.46            | 50.26       | 106.51                | -138.64                           | 6,791.36   | 7,197.06             | 7,139.78              | 57.28                   | 125.650           |                    |         |
| 2,800.00                                      | 2,797.40            | 7,978.44            | 4,987.78            | 9.82            | 50.04       | 106.66                | -121.91                           | 6,791.77   | 7,168.38             | 7,110.79              | 57.59                   | 124.480           |                    |         |
| 2,900.00                                      | 2,896.30            | 7,959.52            | 4,987.90            | 10.18           | 49.78       | 106.77                | -102.99                           | 6,792.21   | 7,141.43             | 7,083.57              | 57.86                   | 123.420           |                    |         |
| 3,000.00                                      | 2,994.93            | 7,938.41            | 4,988.04            | 10.54           | 49.49       | 106.85                | -81.90                            | 6,792.69   | 7,116.23             | 7,058.13              | 58.11                   | 122.470           |                    |         |
| 3,100.00                                      | 3,093.26            | 7,915.12            | 4,988.20            | 10.90           | 49.17       | 106.89                | -58.61                            | 6,793.21   | 7,092.79             | 7,034.48              | 58.32                   | 121.628           |                    |         |
| 3,195.07                                      | 3,186.42            | 7,890.94            | 4,988.38            | 11.24           | 48.84       | 106.89                | -34.43                            | 6,793.72   | 7,072.14             | 7,013.66              | 58.48                   | 120.926           |                    |         |
| 3,200.00                                      | 3,191.25            | 7,889.73            | 4,988.38            | 11.26           | 48.82       | 106.88                | -33.22                            | 6,793.74   | 7,071.11             | 7,012.62              | 58.49                   | 120.890           |                    |         |
| 3,300.00                                      | 3,289.08            | 7,870.14            | 4,988.53            | 11.62           | 48.55       | 106.73                | -13.64                            | 6,794.15   | 7,050.95             | 6,992.21              | 58.74                   | 120.032           |                    |         |
| 3,400.00                                      | 3,386.91            | 7,850.56            | 4,988.67            | 11.98           | 48.29       | 106.57                | 5.93                              | 6,794.56   | 7,032.09             | 6,973.10              | 58.99                   | 119.212           |                    |         |
| 3,500.00                                      | 3,484.74            | 7,830.98            | 4,988.81            | 12.35           | 48.02       | 106.41                | 25.51                             | 6,794.98   | 7,014.55             | 6,955.32              | 59.23                   | 118.432           |                    |         |
| 3,600.00                                      | 3,582.58            | 7,800.00            | 4,989.36            | 12.72           | 47.66       | 105.80                | 100.17                            | 6,796.27   | 6,998.24             | 6,976.97              | 59.48                   | 117.518           |                    |         |
| 3,700.00                                      | 3,680.41            | 7,672.84            | 4,989.92            | 13.09           | 45.86       | 105.13                | 183.63                            | 6,797.18   | 6,983.26             | 6,925.16              | 58.10                   | 120.197           |                    |         |
| 3,800.00                                      | 3,778.24            | 7,646.17            | 4,989.96            | 13.46           | 45.50       | 104.91                | 210.30                            | 6,797.31   | 6,969.36             | 6,911.13              | 58.22                   | 119.702           |                    |         |
| 3,900.00                                      | 3,876.08            | 7,620.52            | 4,989.89            | 13.83           | 45.15       | 104.70                | 235.95                            | 6,797.44   | 6,956.79             | 6,898.43              | 58.35                   | 119.217           |                    |         |
| 4,000.00                                      | 3,973.91            | 7,597.69            | 4,989.74            | 14.21           | 44.84       | 104.52                | 258.77                            | 6,797.55   | 6,945.57             | 6,887.05              | 58.52                   | 118.695           |                    |         |
| 4,100.00                                      | 4,071.74            | 7,579.59            | 4,989.62            | 14.58           | 44.60       | 104.37                | 276.88                            | 6,797.63   | 6,935.72             | 6,876.98              | 58.74                   | 118.083           |                    |         |
| 4,200.00                                      | 4,169.57            | 7,561.35            | 4,989.51            | 14.96           | 44.35       | 104.22                | 295.11                            | 6,797.72   | 6,927.24             | 6,868.30              | 58.95                   | 117.518           |                    |         |
| 4,300.00                                      | 4,267.41            | 7,542.99            | 4,989.41            | 15.33           | 44.10       | 104.07                | 313.47                            | 6,797.81   | 6,920.15             | 6,861.01              | 59.15                   | 117.000           |                    |         |
| 4,400.00                                      | 4,365.24            | 7,524.50            | 4,989.33            | 15.71           | 43.85       | 103.92                | 331.96                            | 6,797.91   | 6,914.45             | 6,855.11              | 59.34                   | 116.527           |                    |         |
| 4,500.00                                      | 4,463.07            | 7,508.00            | 4,989.26            | 16.09           | 43.62       | 103.79                | 348.46                            | 6,797.99   | 6,910.14             | 6,850.59              | 59.55                   | 116.045           |                    |         |
| 4,600.00                                      | 4,560.90            | 7,508.00            | 4,989.26            | 16.47           | 43.62       | 103.79                | 348.46                            | 6,797.99   | 6,907.25             | 6,847.27              | 59.97                   | 115.176           |                    |         |
| 4,700.00                                      | 4,658.74            | 7,483.10            | 4,989.18            | 16.85           | 43.29       | 103.58                | 373.37                            | 6,798.15   | 6,905.73             | 6,845.68              | 60.05                   | 114.996           |                    |         |
| 4,755.88                                      | 4,713.41            | 7,476.49            | 4,989.16            | 17.06           | 43.20       | 103.53                | 379.97                            | 6,798.21   | 6,905.51             | 6,845.32              | 60.19                   | 114.725           |                    |         |
| 4,800.00                                      | 4,756.57            | 7,471.27            | 4,989.14            | 17.23           | 43.13       | 103.49                | 385.19                            | 6,798.25   | 6,905.64             | 6,845.34              | 60.30                   | 114.522           |                    |         |
| 4,900.00                                      | 4,854.40            | 7,459.41            | 4,989.11            | 17.61           | 42.97       | 103.39                | 397.05                            | 6,798.36   | 6,906.98             | 6,846.44              | 60.54                   | 114.093           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 4452-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,000.00                                      | 4,952.23            | 7,447.53            | 4,989.09            | 17.99           | 42.81       | 103.30                | 408.94                            | 6,798.49   | 6,909.72             | 6,848.95              | 60.77                   | 113.709           |                    |         |
| 5,100.00                                      | 5,050.07            | 7,435.61            | 4,989.06            | 18.37           | 42.65       | 103.20                | 420.85                            | 6,798.63   | 6,913.87             | 6,852.89              | 60.99                   | 113.369           |                    |         |
| 5,200.00                                      | 5,147.90            | 7,420.00            | 4,989.04            | 18.75           | 16.22       | 103.07                | 437.04                            | 6,798.85   | 6,919.45             | 6,887.56              | 31.89                   | 217.009           |                    |         |
| 5,300.00                                      | 5,245.73            | 7,410.13            | 4,989.02            | 19.14           | 42.30       | 102.99                | 446.33                            | 6,798.97   | 6,926.40             | 6,865.03              | 61.37                   | 112.858           |                    |         |
| 5,400.00                                      | 5,343.56            | 7,383.79            | 4,988.99            | 19.52           | 41.95       | 102.78                | 472.67                            | 6,799.34   | 6,934.75             | 6,873.38              | 61.37                   | 112.996           |                    |         |
| 5,500.00                                      | 5,441.40            | 7,357.52            | 4,988.94            | 19.90           | 41.60       | 102.56                | 498.93                            | 6,799.68   | 6,944.45             | 6,883.08              | 61.36                   | 113.170           |                    |         |
| 5,600.00                                      | 5,539.23            | 7,331.34            | 4,988.88            | 20.29           | 41.25       | 102.35                | 525.12                            | 6,799.99   | 6,955.49             | 6,894.15              | 61.35                   | 113.382           |                    |         |
| 5,700.00                                      | 5,637.06            | 7,309.43            | 4,988.83            | 20.67           | 40.96       | 102.17                | 547.02                            | 6,800.24   | 6,967.89             | 6,906.51              | 61.38                   | 113.527           |                    |         |
| 5,800.00                                      | 5,734.90            | 7,291.19            | 4,988.81            | 21.05           | 40.71       | 102.02                | 565.26                            | 6,800.45   | 6,981.63             | 6,920.19              | 61.45                   | 113.620           |                    |         |
| 5,900.00                                      | 5,832.73            | 7,272.77            | 4,988.80            | 21.44           | 40.47       | 101.87                | 583.68                            | 6,800.67   | 6,996.73             | 6,935.23              | 61.51                   | 113.755           |                    |         |
| 6,000.00                                      | 5,930.56            | 7,254.18            | 4,988.81            | 21.83           | 40.22       | 101.72                | 602.26                            | 6,800.90   | 7,013.17             | 6,951.62              | 61.56                   | 113.933           |                    |         |
| 6,100.00                                      | 6,028.39            | 7,235.59            | 4,988.87            | 22.21           | 24.98       | 101.33                | 650.61                            | 6,801.43   | 7,030.93             | 6,984.22              | 46.70                   | 150.543           |                    |         |
| 6,200.00                                      | 6,126.23            | 7,216.99            | 4,988.91            | 22.60           | 39.49       | 101.28                | 657.06                            | 6,801.57   | 7,050.02             | 6,988.63              | 61.40                   | 114.829           |                    |         |
| 6,300.00                                      | 6,224.06            | 7,198.39            | 4,988.92            | 22.98           | 38.74       | 100.82                | 713.44                            | 6,802.00   | 7,070.32             | 7,009.39              | 60.93                   | 116.047           |                    |         |
| 6,400.00                                      | 6,321.89            | 7,179.79            | 4,988.89            | 23.37           | 38.40       | 100.61                | 739.46                            | 6,802.10   | 7,091.84             | 7,030.99              | 60.85                   | 116.553           |                    |         |
| 6,500.00                                      | 6,419.72            | 7,161.19            | 4,988.86            | 23.76           | 38.17       | 100.47                | 757.26                            | 6,802.17   | 7,114.65             | 7,053.78              | 60.87                   | 116.890           |                    |         |
| 6,600.00                                      | 6,517.56            | 7,142.59            | 4,988.82            | 24.14           | 37.93       | 100.32                | 774.97                            | 6,802.24   | 7,138.73             | 7,077.85              | 60.88                   | 117.261           |                    |         |
| 6,700.00                                      | 6,615.39            | 7,123.99            | 4,988.77            | 24.53           | 37.70       | 100.18                | 792.60                            | 6,802.32   | 7,164.09             | 7,103.20              | 60.88                   | 117.666           |                    |         |
| 6,800.00                                      | 6,713.22            | 7,105.39            | 4,988.72            | 24.92           | 37.47       | 100.04                | 810.16                            | 6,802.40   | 7,190.69             | 7,129.81              | 60.88                   | 118.105           |                    |         |
| 6,900.00                                      | 6,811.05            | 7,086.79            | 4,988.65            | 25.30           | 37.24       | 99.90                 | 827.46                            | 6,802.49   | 7,218.54             | 7,157.66              | 60.88                   | 118.570           |                    |         |
| 7,000.00                                      | 6,908.89            | 7,068.19            | 4,988.59            | 25.69           | 37.02       | 99.76                 | 844.45                            | 6,802.57   | 7,247.61             | 7,186.74              | 60.87                   | 119.060           |                    |         |
| 7,100.00                                      | 7,006.72            | 7,049.59            | 4,988.51            | 26.08           | 36.80       | 99.62                 | 861.35                            | 6,802.67   | 7,277.89             | 7,217.03              | 60.86                   | 119.582           |                    |         |
| 7,200.00                                      | 7,104.55            | 7,030.99            | 4,988.43            | 26.47           | 36.58       | 99.49                 | 878.18                            | 6,802.76   | 7,309.37             | 7,248.53              | 60.84                   | 120.135           |                    |         |
| 7,216.87                                      | 7,121.05            | 7,012.39            | 4,988.41            | 26.53           | 36.54       | 99.46                 | 881.02                            | 6,802.78   | 7,314.80             | 7,253.96              | 60.84                   | 120.231           |                    |         |
| 7,300.00                                      | 7,202.57            | 7,000.00            | 4,988.34            | 26.85           | 36.37       | 99.78                 | 894.20                            | 6,802.86   | 7,341.89             | 7,281.07              | 60.83                   | 120.701           |                    |         |
| 7,400.00                                      | 7,301.06            | 6,988.39            | 4,988.26            | 27.23           | 36.19       | 100.19                | 908.05                            | 6,802.95   | 7,375.18             | 7,314.36              | 60.83                   | 121.251           |                    |         |
| 7,500.00                                      | 7,399.97            | 6,970.00            | 4,988.22            | 27.61           | 36.10       | 100.67                | 914.44                            | 6,802.99   | 7,409.21             | 7,348.30              | 60.91                   | 121.650           |                    |         |
| 7,600.00                                      | 7,499.23            | 6,951.40            | 4,988.22            | 27.98           | 36.10       | 101.22                | 914.44                            | 6,802.99   | 7,443.97             | 7,382.92              | 61.05                   | 121.926           |                    |         |
| 7,700.00                                      | 7,598.77            | 6,932.80            | 4,988.22            | 28.34           | 36.10       | 101.78                | 914.44                            | 6,802.99   | 7,479.43             | 7,418.24              | 61.19                   | 122.238           |                    |         |
| 7,800.00                                      | 7,698.53            | 6,914.20            | 4,988.22            | 28.70           | 36.10       | 102.34                | 914.44                            | 6,802.99   | 7,515.56             | 7,454.25              | 61.31                   | 122.584           |                    |         |
| 7,900.00                                      | 7,798.44            | 6,895.60            | 4,988.22            | 29.05           | 36.10       | 102.92                | 914.44                            | 6,802.99   | 7,552.32             | 7,490.90              | 61.42                   | 122.963           |                    |         |
| 8,000.00                                      | 7,898.42            | 6,877.00            | 4,988.22            | 29.39           | 36.10       | 103.51                | 914.44                            | 6,802.99   | 7,589.68             | 7,528.16              | 61.52                   | 123.373           |                    |         |
| 8,013.58                                      | 7,912.00            | 6,858.40            | 4,988.22            | 29.43           | 36.10       | 90.81                 | 914.44                            | 6,802.99   | 7,594.79             | 7,533.26              | 61.53                   | 123.432           |                    |         |
| 8,100.00                                      | 7,998.42            | 6,839.80            | 4,988.22            | 29.73           | 36.10       | 90.81                 | 914.44                            | 6,802.99   | 7,627.82             | 7,566.21              | 61.61                   | 123.812           |                    |         |
| 8,200.00                                      | 8,098.42            | 6,821.20            | 4,988.22            | 30.07           | 36.10       | 90.81                 | 914.44                            | 6,802.99   | 7,667.06             | 7,605.37              | 61.69                   | 124.277           |                    |         |
| 8,300.00                                      | 8,198.42            | 6,802.60            | 4,988.22            | 30.41           | 36.10       | 90.81                 | 914.44                            | 6,802.99   | 7,707.41             | 7,645.63              | 61.77                   | 124.767           |                    |         |
| 8,363.62                                      | 8,262.04            | 6,784.00            | 4,988.22            | 30.62           | 36.10       | 90.81                 | 914.44                            | 6,802.99   | 7,733.64             | 7,671.81              | 61.82                   | 125.092           |                    |         |
| 8,400.00                                      | 8,298.40            | 6,765.40            | 4,988.22            | 30.75           | 36.10       | 1.12                  | 914.44                            | 6,802.99   | 7,747.77             | 7,685.93              | 61.85                   | 125.276           |                    |         |
| 8,450.00                                      | 8,348.10            | 6,746.80            | 4,988.22            | 30.91           | 36.10       | 1.09                  | 914.44                            | 6,802.99   | 7,763.92             | 7,702.06              | 61.87                   | 125.493           |                    |         |
| 8,500.00                                      | 8,397.14            | 6,728.20            | 4,988.22            | 31.07           | 36.10       | 1.07                  | 914.44                            | 6,802.99   | 7,776.19             | 7,714.31              | 61.88                   | 125.659           |                    |         |
| 8,550.00                                      | 8,445.15            | 6,709.60            | 4,988.22            | 31.23           | 36.10       | 1.05                  | 914.44                            | 6,802.99   | 7,784.50             | 7,722.60              | 61.89                   | 125.774           |                    |         |
| 8,600.00                                      | 8,491.77            | 6,691.00            | 4,988.22            | 31.38           | 36.10       | 1.04                  | 914.44                            | 6,802.99   | 7,788.79             | 7,726.90              | 61.90                   | 125.839           |                    |         |
| 8,650.00                                      | 8,536.65            | 6,672.40            | 4,988.22            | 31.52           | 36.10       | 1.04                  | 914.44                            | 6,802.99   | 7,789.05             | 7,727.16              | 61.89                   | 125.854           |                    |         |
| 8,700.00                                      | 8,579.43            | 6,653.80            | 4,988.22            | 31.66           | 36.10       | 1.05                  | 914.44                            | 6,802.99   | 7,785.28             | 7,723.40              | 61.88                   | 125.822           |                    |         |
| 8,750.00                                      | 8,619.80            | 6,635.20            | 4,988.22            | 31.80           | 36.10       | 1.06                  | 914.44                            | 6,802.99   | 7,777.49             | 7,715.63              | 61.85                   | 125.742           |                    |         |
| 8,800.00                                      | 8,657.44            | 6,616.60            | 4,988.22            | 31.93           | 36.10       | 1.09                  | 914.44                            | 6,802.99   | 7,765.73             | 7,703.91              | 61.82                   | 125.615           |                    |         |
| 8,850.00                                      | 8,692.08            | 6,598.00            | 4,988.22            | 32.06           | 36.10       | 1.12                  | 914.44                            | 6,802.99   | 7,750.08             | 7,688.29              | 61.78                   | 125.442           |                    |         |
| 8,900.00                                      | 8,723.44            | 6,579.40            | 4,988.22            | 32.19           | 36.10       | 1.16                  | 914.44                            | 6,802.99   | 7,730.62             | 7,668.89              | 61.73                   | 125.224           |                    |         |
| 8,950.00                                      | 8,751.29            | 6,560.80            | 4,988.22            | 32.34           | 36.10       | 1.21                  | 914.44                            | 6,802.99   | 7,707.49             | 7,645.81              | 61.68                   | 124.960           |                    |         |
| 9,000.00                                      | 8,775.42            | 6,542.20            | 4,988.22            | 32.50           | 36.10       | 1.28                  | 914.44                            | 6,802.99   | 7,680.82             | 7,619.20              | 61.62                   | 124.651           |                    |         |
| 9,050.00                                      | 8,795.64            | 6,523.60            | 4,988.22            | 32.67           | 36.10       | 1.37                  | 914.44                            | 6,802.99   | 7,650.79             | 7,589.23              | 61.55                   | 124.298           |                    |         |
| 9,100.00                                      | 8,811.80            | 6,505.00            | 4,988.22            | 32.87           | 36.10       | 1.48                  | 914.44                            | 6,802.99   | 7,617.57             | 7,556.09              | 61.48                   | 123.901           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw State 3H - Wellbore #1 - Wellbore #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | <b>Offset Site Error:</b> | 5.00 ft |
|---------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|---------------------------|---------|
| <b>Survey Program:</b> 100-GYRO-NS-CT, 4452-MWD+HDGM                                        |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning                   |         |
| Measured Depth (ft)                                                                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                           |         |
| 9,150.00                                                                                    | 8,823.77            | 6,942.00            | 4,988.22            | 33.10           | 36.10       | 1.62                  | 914.44                            | 6,802.99   | 7,581.39             | 7,519.98              | 61.41                   | 123.461           |                           |         |
| 9,200.00                                                                                    | 8,831.47            | 6,942.00            | 4,988.22            | 33.34           | 36.10       | 1.81                  | 914.44                            | 6,802.99   | 7,542.48             | 7,481.15              | 61.33                   | 122.978           |                           |         |
| 9,250.00                                                                                    | 8,834.84            | 6,942.00            | 4,988.22            | 33.60           | 36.10       | 2.06                  | 914.44                            | 6,802.99   | 7,501.09             | 7,439.83              | 61.26                   | 122.454           |                           |         |
| 9,263.62                                                                                    | 8,835.00            | 6,942.00            | 4,988.22            | 33.67           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 7,489.42             | 7,428.18              | 61.24                   | 122.299           |                           |         |
| 9,300.00                                                                                    | 8,835.00            | 6,942.00            | 4,988.22            | 33.88           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 7,458.07             | 7,396.89              | 61.18                   | 121.903           |                           |         |
| 9,400.00                                                                                    | 8,835.00            | 6,942.00            | 4,988.22            | 34.53           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 7,372.12             | 7,311.11              | 61.02                   | 120.818           |                           |         |
| 9,500.00                                                                                    | 8,835.00            | 6,942.00            | 4,988.22            | 35.30           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 7,286.54             | 7,225.68              | 60.86                   | 119.730           |                           |         |
| 9,600.00                                                                                    | 8,835.00            | 6,942.00            | 4,988.22            | 36.17           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 7,201.32             | 7,140.62              | 60.70                   | 118.637           |                           |         |
| 9,700.00                                                                                    | 8,835.00            | 6,942.00            | 4,988.22            | 37.13           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 7,116.49             | 7,055.95              | 60.55                   | 117.539           |                           |         |
| 9,800.00                                                                                    | 8,835.00            | 6,942.00            | 4,988.22            | 38.18           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 7,032.06             | 6,971.67              | 60.39                   | 116.436           |                           |         |
| 9,900.00                                                                                    | 8,835.00            | 6,942.00            | 4,988.22            | 39.31           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,948.04             | 6,887.80              | 60.25                   | 115.328           |                           |         |
| 10,000.00                                                                                   | 8,835.00            | 6,942.00            | 4,988.22            | 40.51           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,864.45             | 6,804.35              | 60.10                   | 114.214           |                           |         |
| 10,100.00                                                                                   | 8,835.00            | 6,942.00            | 4,988.22            | 41.78           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,781.31             | 6,721.34              | 59.96                   | 113.094           |                           |         |
| 10,200.00                                                                                   | 8,835.00            | 6,942.00            | 4,988.22            | 43.10           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,698.62             | 6,638.79              | 59.83                   | 111.968           |                           |         |
| 10,300.00                                                                                   | 8,835.00            | 6,942.00            | 4,988.22            | 44.49           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,616.41             | 6,556.72              | 59.70                   | 110.834           |                           |         |
| 10,400.00                                                                                   | 8,835.00            | 6,942.00            | 4,988.22            | 45.92           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,534.70             | 6,475.13              | 59.57                   | 109.694           |                           |         |
| 10,500.00                                                                                   | 8,835.00            | 6,942.00            | 4,988.22            | 47.39           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,453.51             | 6,394.05              | 59.45                   | 108.545           |                           |         |
| 10,600.00                                                                                   | 8,835.00            | 6,942.00            | 4,988.22            | 48.91           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,372.85             | 6,313.50              | 59.34                   | 107.388           |                           |         |
| 10,700.00                                                                                   | 8,835.00            | 6,942.00            | 4,988.22            | 50.47           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,292.74             | 6,233.50              | 59.24                   | 106.223           |                           |         |
| 10,800.00                                                                                   | 8,835.00            | 6,942.00            | 4,988.22            | 52.06           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,213.21             | 6,154.07              | 59.15                   | 105.050           |                           |         |
| 10,900.00                                                                                   | 8,835.00            | 6,942.00            | 4,988.22            | 53.68           | 36.10       | 2.14                  | 914.44                            | 6,802.99   | 6,134.28             | 6,075.22              | 59.06                   | 103.867           |                           |         |
| 11,000.00                                                                                   | 8,835.00            | 6,917.61            | 4,987.98            | 55.32           | 35.79       | 1.77                  | 938.82                            | 6,803.16   | 6,055.86             | 5,997.13              | 58.72                   | 103.125           |                           |         |
| 11,100.00                                                                                   | 8,835.00            | 6,917.04            | 4,987.97            | 57.00           | 35.78       | 1.76                  | 939.39                            | 6,803.17   | 5,978.19             | 5,919.54              | 58.65                   | 101.926           |                           |         |
| 11,200.00                                                                                   | 8,835.00            | 6,916.47            | 4,987.97            | 58.70           | 35.77       | 1.75                  | 939.96                            | 6,803.17   | 5,901.19             | 5,842.60              | 58.59                   | 100.717           |                           |         |
| 11,300.00                                                                                   | 8,835.00            | 6,915.90            | 4,987.96            | 60.41           | 35.76       | 1.74                  | 940.53                            | 6,803.17   | 5,824.90             | 5,766.35              | 58.54                   | 99.497            |                           |         |
| 11,400.00                                                                                   | 8,835.00            | 6,915.33            | 4,987.95            | 62.15           | 35.76       | 1.74                  | 941.11                            | 6,803.18   | 5,749.33             | 5,690.82              | 58.51                   | 98.267            |                           |         |
| 11,500.00                                                                                   | 8,835.00            | 6,914.75            | 4,987.94            | 63.91           | 35.75       | 1.73                  | 941.69                            | 6,803.18   | 5,674.51             | 5,616.03              | 58.48                   | 97.027            |                           |         |
| 11,600.00                                                                                   | 8,835.00            | 6,914.17            | 4,987.93            | 65.69           | 35.74       | 1.72                  | 942.27                            | 6,803.19   | 5,600.49             | 5,542.01              | 58.47                   | 95.776            |                           |         |
| 11,700.00                                                                                   | 8,835.00            | 6,913.58            | 4,987.92            | 67.47           | 35.73       | 1.71                  | 942.85                            | 6,803.19   | 5,527.28             | 5,468.80              | 58.48                   | 94.515            |                           |         |
| 11,800.00                                                                                   | 8,835.00            | 6,913.00            | 4,987.91            | 69.28           | 35.73       | 1.70                  | 943.44                            | 6,803.20   | 5,454.92             | 5,396.42              | 58.50                   | 93.245            |                           |         |
| 11,900.00                                                                                   | 8,835.00            | 6,912.41            | 4,987.91            | 71.09           | 35.72       | 1.69                  | 944.03                            | 6,803.20   | 5,383.44             | 5,324.91              | 58.54                   | 91.965            |                           |         |
| 12,000.00                                                                                   | 8,835.00            | 6,911.81            | 4,987.90            | 72.92           | 35.71       | 1.68                  | 944.62                            | 6,803.21   | 5,312.89             | 5,254.30              | 58.59                   | 90.676            |                           |         |
| 12,100.00                                                                                   | 8,835.00            | 6,911.22            | 4,987.89            | 74.76           | 35.70       | 1.67                  | 945.22                            | 6,803.21   | 5,243.29             | 5,184.63              | 58.66                   | 89.379            |                           |         |
| 12,200.00                                                                                   | 8,835.00            | 6,910.62            | 4,987.88            | 76.61           | 35.70       | 1.66                  | 945.82                            | 6,803.22   | 5,174.70             | 5,115.94              | 58.75                   | 88.076            |                           |         |
| 12,300.00                                                                                   | 8,835.00            | 6,910.02            | 4,987.87            | 78.47           | 35.69       | 1.66                  | 946.42                            | 6,803.22   | 5,107.13             | 5,048.27              | 58.86                   | 86.766            |                           |         |
| 12,400.00                                                                                   | 8,835.00            | 6,909.41            | 4,987.86            | 80.34           | 35.68       | 1.65                  | 947.02                            | 6,803.23   | 5,040.65             | 4,981.66              | 58.99                   | 85.451            |                           |         |
| 12,500.00                                                                                   | 8,835.00            | 6,908.81            | 4,987.85            | 82.22           | 35.67       | 1.64                  | 947.63                            | 6,803.23   | 4,975.28             | 4,916.15              | 59.14                   | 84.132            |                           |         |
| 12,600.00                                                                                   | 8,835.00            | 6,908.20            | 4,987.84            | 84.11           | 35.67       | 1.63                  | 948.24                            | 6,803.24   | 4,911.09             | 4,851.78              | 59.30                   | 82.811            |                           |         |
| 12,700.00                                                                                   | 8,835.00            | 6,907.58            | 4,987.83            | 86.00           | 35.66       | 1.62                  | 948.85                            | 6,803.24   | 4,848.10             | 4,788.61              | 59.49                   | 81.490            |                           |         |
| 12,800.00                                                                                   | 8,835.00            | 6,906.96            | 4,987.82            | 87.90           | 35.65       | 1.61                  | 949.47                            | 6,803.25   | 4,786.38             | 4,726.68              | 59.70                   | 80.169            |                           |         |
| 12,900.00                                                                                   | 8,835.00            | 6,906.35            | 4,987.81            | 89.81           | 35.64       | 1.60                  | 950.09                            | 6,803.25   | 4,725.96             | 4,666.03              | 59.94                   | 78.851            |                           |         |
| 13,000.00                                                                                   | 8,835.00            | 6,905.72            | 4,987.80            | 91.72           | 35.63       | 1.59                  | 950.71                            | 6,803.26   | 4,666.91             | 4,606.72              | 60.19                   | 77.538            |                           |         |
| 13,100.00                                                                                   | 8,835.00            | 6,905.10            | 4,987.79            | 93.64           | 35.62       | 1.58                  | 951.34                            | 6,803.26   | 4,609.27             | 4,548.81              | 60.46                   | 76.232            |                           |         |
| 13,200.00                                                                                   | 8,835.00            | 6,904.47            | 4,987.77            | 95.56           | 35.62       | 1.57                  | 951.97                            | 6,803.27   | 4,553.10             | 4,492.34              | 60.76                   | 74.934            |                           |         |
| 13,300.00                                                                                   | 8,835.00            | 6,903.83            | 4,987.76            | 97.49           | 35.61       | 1.56                  | 952.60                            | 6,803.28   | 4,498.44             | 4,437.36              | 61.08                   | 73.647            |                           |         |
| 13,400.00                                                                                   | 8,835.00            | 6,903.20            | 4,987.75            | 99.42           | 35.60       | 1.55                  | 953.23                            | 6,803.28   | 4,445.37             | 4,383.95              | 61.42                   | 72.372            |                           |         |
| 13,500.00                                                                                   | 8,835.00            | 6,902.56            | 4,987.74            | 101.36          | 35.59       | 1.54                  | 953.87                            | 6,803.29   | 4,393.93             | 4,332.14              | 61.79                   | 71.113            |                           |         |
| 13,600.00                                                                                   | 8,835.00            | 6,901.92            | 4,987.73            | 103.30          | 35.58       | 1.53                  | 954.51                            | 6,803.29   | 4,344.18             | 4,282.01              | 62.17                   | 69.871            |                           |         |
| 13,700.00                                                                                   | 8,835.00            | 6,901.27            | 4,987.72            | 105.25          | 35.58       | 1.52                  | 955.16                            | 6,803.30   | 4,296.19             | 4,233.61              | 62.58                   | 68.648            |                           |         |
| 13,800.00                                                                                   | 8,835.00            | 6,900.62            | 4,987.70            | 107.20          | 35.57       | 1.51                  | 955.81                            | 6,803.30   | 4,250.00             | 4,186.99              | 63.01                   | 67.447            |                           |         |
| 13,900.00                                                                                   | 8,835.00            | 6,899.97            | 4,987.69            | 109.15          | 35.56       | 1.50                  | 956.46                            | 6,803.31   | 4,205.69             | 4,142.23              | 63.46                   | 66.268            |                           |         |
| 14,000.00                                                                                   | 8,835.00            | 6,899.32            | 4,987.68            | 111.10          | 35.55       | 1.49                  | 957.12                            | 6,803.32   | 4,163.31             | 4,099.37              | 63.94                   | 65.115            |                           |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw State 3H - Wellbore #1 - Wellbore #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|---------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 4452-MWD+HDGM                                               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                                                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                                                                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 14,100.00                                                                                   | 8,835.00            | 6,898.66            | 4,987.67            | 113.06          | 35.54       | 1.48                  | 957.77                            | 6,803.32   | 4,122.92             | 4,058.48              | 64.43                   | 63.988            |                    |         |
| 14,200.00                                                                                   | 8,835.00            | 6,898.00            | 4,987.65            | 115.03          | 35.53       | 1.47                  | 958.44                            | 6,803.33   | 4,084.57             | 4,019.62              | 64.95                   | 62.889            |                    |         |
| 14,300.00                                                                                   | 8,835.00            | 6,897.33            | 4,987.64            | 116.99          | 35.52       | 1.46                  | 959.10                            | 6,803.33   | 4,048.34             | 3,982.85              | 65.49                   | 61.820            |                    |         |
| 14,400.00                                                                                   | 8,835.00            | 6,896.66            | 4,987.63            | 118.96          | 35.52       | 1.45                  | 959.77                            | 6,803.34   | 4,014.26             | 3,948.22              | 66.04                   | 60.781            |                    |         |
| 14,500.00                                                                                   | 8,835.00            | 6,895.99            | 4,987.61            | 120.93          | 35.51       | 1.44                  | 960.44                            | 6,803.35   | 3,982.41             | 3,915.79              | 66.62                   | 59.775            |                    |         |
| 14,600.00                                                                                   | 8,835.00            | 6,895.31            | 4,987.60            | 122.90          | 35.50       | 1.43                  | 961.12                            | 6,803.35   | 3,952.83             | 3,885.61              | 67.22                   | 58.802            |                    |         |
| 14,700.00                                                                                   | 8,835.00            | 6,894.63            | 4,987.59            | 124.88          | 35.49       | 1.42                  | 961.80                            | 6,803.36   | 3,925.58             | 3,857.73              | 67.84                   | 57.862            |                    |         |
| 14,800.00                                                                                   | 8,835.00            | 6,893.95            | 4,987.57            | 126.86          | 35.48       | 1.41                  | 962.48                            | 6,803.36   | 3,900.70             | 3,832.21              | 68.48                   | 56.957            |                    |         |
| 14,900.00                                                                                   | 8,835.00            | 6,893.26            | 4,987.56            | 128.84          | 35.47       | 1.40                  | 963.17                            | 6,803.37   | 3,878.24             | 3,809.09              | 69.15                   | 56.087            |                    |         |
| 15,000.00                                                                                   | 8,835.00            | 6,892.57            | 4,987.54            | 130.82          | 35.46       | 1.39                  | 963.86                            | 6,803.38   | 3,858.24             | 3,788.41              | 69.83                   | 55.252            |                    |         |
| 15,100.00                                                                                   | 8,835.00            | 6,891.88            | 4,987.53            | 132.80          | 35.45       | 1.38                  | 964.55                            | 6,803.38   | 3,840.74             | 3,770.21              | 70.53                   | 54.454            |                    |         |
| 15,200.00                                                                                   | 8,835.00            | 6,891.18            | 4,987.51            | 134.79          | 35.44       | 1.37                  | 965.25                            | 6,803.39   | 3,825.78             | 3,754.52              | 71.26                   | 53.691            |                    |         |
| 15,300.00                                                                                   | 8,835.00            | 6,890.48            | 4,987.50            | 136.78          | 35.44       | 1.36                  | 965.95                            | 6,803.40   | 3,813.38             | 3,741.38              | 72.00                   | 52.965            |                    |         |
| 15,400.00                                                                                   | 8,835.00            | 6,889.77            | 4,987.48            | 138.76          | 35.43       | 1.35                  | 966.66                            | 6,803.40   | 3,803.56             | 3,730.80              | 72.76                   | 52.276            |                    |         |
| 15,500.00                                                                                   | 8,835.00            | 6,889.06            | 4,987.47            | 140.76          | 35.42       | 1.34                  | 967.37                            | 6,803.41   | 3,796.36             | 3,722.82              | 73.54                   | 51.623            |                    |         |
| 15,600.00                                                                                   | 8,835.00            | 6,888.35            | 4,987.45            | 142.75          | 35.41       | 1.33                  | 968.08                            | 6,803.42   | 3,791.79             | 3,717.45              | 74.34                   | 51.009            |                    |         |
| 15,700.00                                                                                   | 8,835.00            | 6,887.63            | 4,987.43            | 144.74          | 35.40       | 1.32                  | 968.80                            | 6,803.42   | 3,789.84             | 3,714.69              | 75.15                   | 50.432            |                    |         |
| 15,723.69                                                                                   | 8,835.00            | 6,887.46            | 4,987.43            | 145.21          | 35.40       | 1.31                  | 968.97                            | 6,803.43   | 3,789.77             | 3,714.43              | 75.34                   | 50.301            | CC, ES             |         |
| 15,800.00                                                                                   | 8,835.00            | 6,886.91            | 4,987.42            | 146.74          | 35.39       | 1.31                  | 969.52                            | 6,803.43   | 3,790.54             | 3,714.56              | 75.97                   | 49.894            |                    |         |
| 15,900.00                                                                                   | 8,835.00            | 6,886.19            | 4,987.40            | 148.73          | 35.38       | 1.30                  | 970.24                            | 6,803.44   | 3,793.87             | 3,717.06              | 76.81                   | 49.395            |                    |         |
| 16,000.00                                                                                   | 8,835.00            | 6,885.46            | 4,987.38            | 150.73          | 35.37       | 1.28                  | 970.97                            | 6,803.44   | 3,799.83             | 3,722.18              | 77.65                   | 48.936            |                    |         |
| 16,100.00                                                                                   | 8,835.00            | 6,884.73            | 4,987.37            | 152.73          | 35.36       | 1.27                  | 971.70                            | 6,803.45   | 3,808.40             | 3,729.90              | 78.50                   | 48.516            |                    |         |
| 16,200.00                                                                                   | 8,835.00            | 6,883.99            | 4,987.35            | 154.73          | 35.35       | 1.26                  | 972.44                            | 6,803.46   | 3,819.58             | 3,740.23              | 79.35                   | 48.137            |                    |         |
| 16,300.00                                                                                   | 8,835.00            | 6,883.25            | 4,987.33            | 156.73          | 35.34       | 1.25                  | 973.18                            | 6,803.47   | 3,833.33             | 3,753.13              | 80.20                   | 47.799            |                    |         |
| 16,400.00                                                                                   | 8,835.00            | 6,882.50            | 4,987.31            | 158.74          | 35.33       | 1.24                  | 973.92                            | 6,803.47   | 3,849.63             | 3,768.59              | 81.04                   | 47.503            |                    |         |
| 16,500.00                                                                                   | 8,835.00            | 6,881.76            | 4,987.29            | 160.74          | 35.32       | 1.23                  | 974.67                            | 6,803.48   | 3,868.45             | 3,786.58              | 81.88                   | 47.248            |                    |         |
| 16,600.00                                                                                   | 8,835.00            | 6,881.00            | 4,987.27            | 162.74          | 35.31       | 1.22                  | 975.42                            | 6,803.49   | 3,889.75             | 3,807.05              | 82.70                   | 47.034            |                    |         |
| 16,700.00                                                                                   | 8,835.00            | 6,880.24            | 4,987.26            | 164.75          | 35.30       | 1.21                  | 976.18                            | 6,803.50   | 3,913.49             | 3,829.98              | 83.51                   | 46.862            |                    |         |
| 16,800.00                                                                                   | 8,835.00            | 6,879.48            | 4,987.24            | 166.76          | 35.29       | 1.19                  | 976.94                            | 6,803.50   | 3,939.62             | 3,855.32              | 84.30                   | 46.731            |                    |         |
| 16,900.00                                                                                   | 8,835.00            | 6,878.72            | 4,987.22            | 168.77          | 35.28       | 1.18                  | 977.71                            | 6,803.51   | 3,968.11             | 3,883.03              | 85.08                   | 46.641            |                    |         |
| 17,000.00                                                                                   | 8,835.00            | 6,877.95            | 4,987.20            | 170.77          | 35.27       | 1.17                  | 978.48                            | 6,803.52   | 3,998.89             | 3,913.06              | 85.83                   | 46.592            |                    |         |
| 17,100.00                                                                                   | 8,835.00            | 6,877.17            | 4,987.18            | 172.78          | 35.26       | 1.16                  | 979.25                            | 6,803.53   | 4,031.91             | 3,945.36              | 86.56                   | 46.582            |                    |         |
| 17,200.00                                                                                   | 8,835.00            | 6,876.39            | 4,987.16            | 174.79          | 35.25       | 1.15                  | 980.03                            | 6,803.54   | 4,067.13             | 3,979.88              | 87.26                   | 46.611            |                    |         |
| 17,300.00                                                                                   | 8,835.00            | 6,875.61            | 4,987.14            | 176.81          | 35.24       | 1.14                  | 980.81                            | 6,803.54   | 4,104.48             | 4,016.55              | 87.93                   | 46.678            |                    |         |
| 17,400.00                                                                                   | 8,835.00            | 6,874.82            | 4,987.11            | 178.82          | 35.23       | 1.12                  | 981.60                            | 6,803.55   | 4,143.91             | 4,055.33              | 88.58                   | 46.782            |                    |         |
| 17,500.00                                                                                   | 8,835.00            | 6,874.03            | 4,987.09            | 180.83          | 35.22       | 1.11                  | 982.39                            | 6,803.56   | 4,185.36             | 4,096.16              | 89.20                   | 46.922            |                    |         |
| 17,600.00                                                                                   | 8,835.00            | 6,873.24            | 4,987.07            | 182.84          | 35.21       | 1.10                  | 983.19                            | 6,803.57   | 4,228.76             | 4,138.98              | 89.79                   | 47.097            |                    |         |
| 17,700.00                                                                                   | 8,835.00            | 6,872.43            | 4,987.05            | 184.86          | 35.20       | 1.09                  | 983.99                            | 6,803.58   | 4,274.07             | 4,183.72              | 90.35                   | 47.306            |                    |         |
| 17,800.00                                                                                   | 8,835.00            | 6,871.63            | 4,987.03            | 186.87          | 35.19       | 1.08                  | 984.79                            | 6,803.59   | 4,321.21             | 4,230.33              | 90.88                   | 47.548            |                    |         |
| 17,900.00                                                                                   | 8,835.00            | 6,870.82            | 4,987.00            | 188.89          | 35.18       | 1.06                  | 985.60                            | 6,803.59   | 4,370.14             | 4,278.75              | 91.38                   | 47.822            |                    |         |
| 18,000.00                                                                                   | 8,835.00            | 6,870.00            | 4,986.98            | 190.91          | 35.17       | 1.05                  | 986.42                            | 6,803.60   | 4,420.78             | 4,328.92              | 91.86                   | 48.126            |                    |         |
| 18,100.00                                                                                   | 8,835.00            | 6,869.18            | 4,986.96            | 192.92          | 35.16       | 1.04                  | 987.24                            | 6,803.61   | 4,473.09             | 4,380.78              | 92.31                   | 48.459            |                    |         |
| 18,200.00                                                                                   | 8,835.00            | 6,868.36            | 4,986.93            | 194.94          | 35.15       | 1.03                  | 988.06                            | 6,803.62   | 4,527.00             | 4,434.27              | 92.73                   | 48.821            |                    |         |
| 18,300.00                                                                                   | 8,835.00            | 6,867.53            | 4,986.91            | 196.96          | 35.14       | 1.01                  | 988.89                            | 6,803.63   | 4,582.46             | 4,489.33              | 93.12                   | 49.210            |                    |         |
| 18,400.00                                                                                   | 8,835.00            | 6,866.70            | 4,986.89            | 198.98          | 35.13       | 1.00                  | 989.72                            | 6,803.64   | 4,639.41             | 4,545.92              | 93.49                   | 49.625            |                    |         |
| 18,500.00                                                                                   | 8,835.00            | 18,500.00           | 4,986.25            | 201.00          | 185.52      | 0.70                  | 1,009.52                          | 6,803.87   | 4,697.87             | 4,492.52              | 205.35                  | 22.877            | SF                 |         |
| 18,600.00                                                                                   | 8,835.00            | 18,600.00           | 4,986.18            | 203.02          | 186.82      | 0.67                  | 1,011.68                          | 6,803.90   | 4,757.64             | 4,549.85              | 207.78                  | 22.897            |                    |         |
| 18,700.00                                                                                   | 8,835.00            | 18,700.00           | 4,986.12            | 205.04          | 188.11      | 0.64                  | 1,013.85                          | 6,803.93   | 4,818.74             | 4,608.55              | 210.18                  | 22.926            |                    |         |
| 18,800.00                                                                                   | 8,835.00            | 18,800.00           | 4,986.06            | 207.06          | 189.41      | 0.60                  | 1,016.01                          | 6,803.97   | 4,881.12             | 4,668.57              | 212.55                  | 22.965            |                    |         |
| 18,900.00                                                                                   | 8,835.00            | 18,900.00           | 4,986.00            | 209.08          | 190.70      | 0.57                  | 1,018.18                          | 6,804.00   | 4,944.74             | 4,729.85              | 214.89                  | 23.011            |                    |         |
| 19,000.00                                                                                   | 8,835.00            | 19,000.00           | 4,985.94            | 211.10          | 192.00      | 0.54                  | 1,020.34                          | 6,804.04   | 5,009.54             | 4,792.35              | 217.19                  | 23.065            |                    |         |
| 19,100.00                                                                                   | 8,835.00            | 19,100.00           | 4,985.88            | 213.12          | 193.29      | 0.51                  | 1,022.50                          | 6,804.07   | 5,075.49             | 4,856.03              | 219.46                  | 23.127            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw State 3H - Wellbore #1 - Wellbore #1 |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Site Error:</b> | 5.00 ft |
|---------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|-----------------------------------------|---------------|-------------------------|--------------------------|----------------------------|---------------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 4452-MWD+HDGM                                               |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                   |                        | Offset                 |                        | Semi Major Axis   |                |                          | Distance                                |               |                         |                          |                            |                           | Warning |
| Measured Depth<br>(ft)                                                                      | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between Centres<br>(ft) | Between Ellipses<br>(ft) | Minimum Separation<br>(ft) | Separation Factor         |         |
| 19,200.00                                                                                   | 8,835.00               | 19,200.00              | 4,985.82               | 215.15            | 194.59         | 0.47                     | 1,024.67                                | 6,804.10      | 5,142.53                | 4,920.83                 | 221.70                     | 23.196                    |         |
| 19,308.27                                                                                   | 8,835.00               | 19,308.27              | 4,985.75               | 217.34            | 195.99         | 0.44                     | 1,027.01                                | 6,804.14      | 5,216.31                | 4,992.22                 | 224.09                     | 23.278                    |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 2922-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                                          | 0.00                | 0.00                | 0.00                | 0.50            | 5.02        | 67.10                 | 3,259.92                          | 7,715.55   | 8,376.16             |                       |                         |                   |                    |         |
| 100.00                                        | 100.00              | 38.30               | 38.30               | 0.52            | 5.03        | 67.10                 | 3,259.92                          | 7,715.55   | 8,375.97             | 8,370.43              | 5.54                    | 1,511.104         |                    |         |
| 200.00                                        | 200.00              | 138.37              | 138.37              | 0.70            | 5.03        | 67.10                 | 3,259.99                          | 7,715.61   | 8,376.05             | 8,370.32              | 5.73                    | 1,460.755         |                    |         |
| 300.00                                        | 300.00              | 262.01              | 262.01              | 0.99            | 5.07        | 67.09                 | 3,260.41                          | 7,715.32   | 8,375.97             | 8,369.91              | 6.06                    | 1,382.075         |                    |         |
| 400.00                                        | 400.00              | 400.00              | 466.75              | 1.31            | 5.16        | 67.09                 | 3,259.79                          | 7,713.68   | 8,375.12             | 8,368.65              | 6.47                    | 1,294.403         |                    |         |
| 500.00                                        | 500.00              | 624.90              | 624.85              | 1.65            | 5.40        | 67.10                 | 3,257.38                          | 7,711.17   | 8,372.94             | 8,365.89              | 7.04                    | 1,189.089         |                    |         |
| 600.00                                        | 600.00              | 685.91              | 685.85              | 1.99            | 5.48        | 67.10                 | 3,256.55                          | 7,710.23   | 8,370.99             | 8,363.52              | 7.47                    | 1,120.953         |                    |         |
| 700.00                                        | 700.00              | 763.71              | 763.63              | 2.34            | 5.60        | 67.10                 | 3,255.90                          | 7,709.20   | 8,369.43             | 8,361.50              | 7.93                    | 1,055.332         |                    |         |
| 800.00                                        | 800.00              | 874.72              | 874.63              | 2.69            | 5.78        | 67.10                 | 3,255.32                          | 7,707.69   | 8,367.98             | 8,359.52              | 8.46                    | 988.796           |                    |         |
| 900.00                                        | 900.00              | 1,003.73            | 1,003.62            | 3.04            | 6.02        | 67.10                 | 3,254.96                          | 7,705.38   | 8,366.22             | 8,357.17              | 9.05                    | 924.376           |                    |         |
| 1,000.00                                      | 1,000.00            | 1,070.14            | 1,070.02            | 3.40            | 6.15        | 67.10                 | 3,254.91                          | 7,704.17   | 8,364.51             | 8,354.97              | 9.54                    | 877.170           |                    |         |
| 1,100.00                                      | 1,100.00            | 1,360.61            | 1,360.37            | 3.75            | 6.79        | 67.10                 | 3,251.74                          | 7,697.48   | 8,362.19             | 8,351.67              | 10.52                   | 794.662           |                    |         |
| 1,200.00                                      | 1,200.00            | 1,439.83            | 1,439.53            | 4.11            | 6.99        | 67.11                 | 3,249.43                          | 7,695.28   | 8,358.50             | 8,347.43              | 11.07                   | 755.142           |                    |         |
| 1,300.00                                      | 1,300.00            | 1,515.20            | 1,514.85            | 4.46            | 7.18        | 67.12                 | 3,247.19                          | 7,693.43   | 8,355.09             | 8,343.48              | 11.61                   | 719.541           |                    |         |
| 1,400.00                                      | 1,400.00            | 1,589.22            | 1,588.82            | 4.82            | 7.37        | 67.13                 | 3,245.03                          | 7,691.85   | 8,351.98             | 8,339.82              | 12.16                   | 687.040           |                    |         |
| 1,500.00                                      | 1,500.00            | 1,716.67            | 1,716.19            | 5.18            | 7.71        | 67.14                 | 3,241.38                          | 7,689.04   | 8,348.83             | 8,335.99              | 12.85                   | 649.941           |                    |         |
| 1,600.00                                      | 1,600.00            | 1,788.89            | 1,788.36            | 5.53            | 7.91        | 67.15                 | 3,239.38                          | 7,687.45   | 8,345.72             | 8,332.32              | 13.40                   | 622.950           |                    |         |
| 1,700.00                                      | 1,700.00            | 1,920.52            | 1,919.91            | 5.89            | 8.28        | 67.17                 | 3,235.64                          | 7,684.60   | 8,342.63             | 8,328.52              | 14.12                   | 591.037           |                    |         |
| 1,800.00                                      | 1,800.00            | 2,092.57            | 2,091.81            | 6.25            | 8.79        | 67.19                 | 3,230.31                          | 7,679.94   | 8,338.98             | 8,324.02              | 14.96                   | 557.516           |                    |         |
| 1,900.00                                      | 1,900.00            | 2,177.30            | 2,176.46            | 6.61            | 9.04        | 67.20                 | 3,227.83                          | 7,677.18   | 8,334.85             | 8,319.29              | 15.56                   | 535.638           |                    |         |
| 2,000.00                                      | 2,000.00            | 2,245.49            | 2,244.59            | 6.96            | 9.25        | 67.20                 | 3,225.91                          | 7,675.14   | 8,331.01             | 8,314.89              | 16.12                   | 516.838           |                    |         |
| 2,100.00                                      | 2,099.99            | 2,316.89            | 2,315.94            | 7.32            | 9.46        | 80.03                 | 3,223.83                          | 7,673.38   | 8,327.44             | 8,310.75              | 16.69                   | 498.984           |                    |         |
| 2,200.00                                      | 2,199.96            | 2,422.33            | 2,421.30            | 7.68            | 9.79        | 80.10                 | 3,220.65                          | 7,670.85   | 8,323.61             | 8,306.24              | 17.36                   | 479.441           |                    |         |
| 2,300.00                                      | 2,299.86            | 2,500.00            | 2,498.92            | 8.04            | 10.03       | 80.17                 | 3,218.40                          | 7,669.12   | 8,319.66             | 8,301.71              | 17.95                   | 463.405           |                    |         |
| 2,400.00                                      | 2,399.68            | 2,596.25            | 2,595.11            | 8.39            | 10.33       | 80.26                 | 3,215.72                          | 7,667.08   | 8,315.59             | 8,296.99              | 18.60                   | 446.992           |                    |         |
| 2,500.00                                      | 2,499.37            | 2,691.74            | 2,690.54            | 8.75            | 10.63       | 80.37                 | 3,213.14                          | 7,665.03   | 8,311.24             | 8,291.98              | 19.25                   | 431.670           |                    |         |
| 2,600.00                                      | 2,598.90            | 2,769.79            | 2,768.55            | 9.11            | 10.87       | 80.47                 | 3,211.15                          | 7,663.42   | 8,306.75             | 8,286.90              | 19.85                   | 418.423           |                    |         |
| 2,700.00                                      | 2,698.26            | 2,836.81            | 2,835.55            | 9.46            | 10.99       | 80.57                 | 3,209.74                          | 7,662.15   | 8,302.31             | 8,281.99              | 20.32                   | 408.506           |                    |         |
| 2,800.00                                      | 2,797.40            | 2,903.16            | 2,901.87            | 9.82            | 11.10       | 80.68                 | 3,208.92                          | 7,660.95   | 8,298.00             | 8,277.21              | 20.79                   | 399.207           |                    |         |
| 2,900.00                                      | 2,896.30            | 2,989.64            | 2,988.35            | 10.18           | 11.14       | 80.81                 | 3,208.49                          | 7,659.40   | 8,293.73             | 8,272.54              | 21.18                   | 391.521           |                    |         |
| 3,000.00                                      | 2,994.93            | 3,339.89            | 3,337.93            | 10.54           | 11.27       | 81.16                 | 3,217.22                          | 7,642.24   | 8,286.78             | 8,265.12              | 21.66                   | 382.635           |                    |         |
| 3,100.00                                      | 3,093.26            | 3,440.95            | 3,438.62            | 10.90           | 11.33       | 81.31                 | 3,222.00                          | 7,635.01   | 8,279.03             | 8,256.95              | 22.08                   | 374.946           |                    |         |
| 3,195.07                                      | 3,186.42            | 3,534.95            | 3,532.27            | 11.24           | 11.40       | 81.47                 | 3,226.42                          | 7,628.27   | 8,271.42             | 8,248.92              | 22.49                   | 367.709           |                    |         |
| 3,200.00                                      | 3,191.25            | 3,539.73            | 3,537.04            | 11.26           | 11.40       | 81.48                 | 3,226.65                          | 7,627.93   | 8,271.02             | 8,248.50              | 22.52                   | 367.337           |                    |         |
| 3,300.00                                      | 3,289.08            | 3,636.61            | 3,633.57            | 11.62           | 11.48       | 81.57                 | 3,231.23                          | 7,621.00   | 8,262.92             | 8,239.96              | 22.96                   | 359.831           |                    |         |
| 3,400.00                                      | 3,386.91            | 3,734.62            | 3,731.21            | 11.98           | 11.58       | 81.66                 | 3,235.91                          | 7,613.98   | 8,254.87             | 8,231.45              | 23.42                   | 352.410           |                    |         |
| 3,500.00                                      | 3,484.74            | 3,833.44            | 3,829.65            | 12.35           | 11.68       | 81.75                 | 3,240.76                          | 7,606.86   | 8,246.84             | 8,222.95              | 23.90                   | 345.084           |                    |         |
| 3,600.00                                      | 3,582.58            | 3,928.67            | 3,924.52            | 12.72           | 11.79       | 81.84                 | 3,245.42                          | 7,600.01   | 8,238.85             | 8,214.47              | 24.38                   | 337.934           |                    |         |
| 3,700.00                                      | 3,680.41            | 3,990.40            | 3,986.02            | 13.09           | 11.86       | 81.90                 | 3,248.43                          | 7,595.68   | 8,231.07             | 8,206.23              | 24.83                   | 331.471           |                    |         |
| 3,800.00                                      | 3,778.24            | 4,056.00            | 4,051.41            | 13.46           | 11.95       | 81.96                 | 3,251.84                          | 7,591.56   | 8,223.97             | 8,198.68              | 25.29                   | 325.150           |                    |         |
| 3,900.00                                      | 3,876.08            | 4,249.14            | 4,244.02            | 13.83           | 12.22       | 82.16                 | 3,258.65                          | 7,579.19   | 8,216.20             | 8,190.27              | 25.94                   | 316.799           |                    |         |
| 4,000.00                                      | 3,973.91            | 4,278.03            | 4,272.84            | 14.21           | 12.27       | 82.20                 | 3,259.51                          | 7,577.39   | 8,208.47             | 8,182.11              | 26.36                   | 311.378           |                    |         |
| 4,100.00                                      | 4,071.74            | 4,309.23            | 4,303.98            | 14.58           | 12.31       | 82.23                 | 3,260.54                          | 7,575.67   | 8,201.58             | 8,174.79              | 26.79                   | 306.125           |                    |         |
| 4,200.00                                      | 4,169.57            | 4,341.27            | 4,335.97            | 14.96           | 12.36       | 82.26                 | 3,261.72                          | 7,574.15   | 8,195.53             | 8,168.31              | 27.22                   | 301.056           |                    |         |
| 4,300.00                                      | 4,267.41            | 4,424.01            | 4,418.56            | 15.33           | 12.50       | 82.35                 | 3,264.95                          | 7,570.58   | 8,190.00             | 8,162.27              | 27.74                   | 295.277           |                    |         |
| 4,400.00                                      | 4,365.24            | 4,521.29            | 4,515.68            | 15.71           | 12.66       | 82.46                 | 3,268.77                          | 7,566.48   | 8,184.62             | 8,156.34              | 28.28                   | 289.400           |                    |         |
| 4,500.00                                      | 4,463.07            | 4,614.27            | 4,608.51            | 16.09           | 12.82       | 82.56                 | 3,272.37                          | 7,562.62   | 8,179.29             | 8,150.46              | 28.83                   | 283.738           |                    |         |
| 4,600.00                                      | 4,560.90            | 4,713.41            | 4,707.49            | 16.47           | 13.01       | 82.67                 | 3,276.16                          | 7,558.56   | 8,174.03             | 8,144.64              | 29.39                   | 278.114           |                    |         |
| 4,700.00                                      | 4,658.74            | 4,802.74            | 4,796.69            | 16.85           | 13.18       | 82.77                 | 3,279.48                          | 7,554.98   | 8,168.84             | 8,138.90              | 29.94                   | 272.802           |                    |         |
| 4,800.00                                      | 4,756.57            | 4,800.00            | 7,752.71            | 17.23           | 27.68       | 105.91                | 609.78                            | 7,460.74   | 8,156.80             | 8,114.48              | 42.32                   | 192.750           |                    |         |
| 4,900.00                                      | 4,854.40            | 10,189.43           | 7,751.94            | 17.61           | 42.70       | 105.15                | 713.74                            | 7,458.20   | 8,124.42             | 8,066.77              | 57.65                   | 140.938           |                    |         |
| 5,000.00                                      | 4,952.23            | 10,159.12           | 7,751.39            | 17.99           | 42.31       | 104.93                | 744.03                            | 7,457.39   | 8,093.00             | 8,035.20              | 57.80                   | 140.018           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 2922-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                                      | 5,050.07            | 10,156.00           | 7,751.33            | 18.37           | 42.27       | 104.90                | 747.15                            | 7,457.31   | 8,062.65             | 8,004.36              | 58.30                   | 138.307           |                    |         |
| 5,200.00                                      | 5,147.90            | 10,156.00           | 7,751.33            | 18.75           | 42.27       | 104.90                | 747.15                            | 7,457.31   | 8,033.44             | 7,974.61              | 58.83                   | 136.556           |                    |         |
| 5,300.00                                      | 5,245.73            | 10,129.78           | 7,750.90            | 19.14           | 41.94       | 104.71                | 773.36                            | 7,456.62   | 8,005.28             | 7,946.25              | 59.03                   | 135.616           |                    |         |
| 5,400.00                                      | 5,343.56            | 10,120.36           | 7,750.78            | 19.52           | 41.82       | 104.64                | 782.77                            | 7,456.39   | 7,978.29             | 7,918.85              | 59.44                   | 134.229           |                    |         |
| 5,500.00                                      | 5,441.40            | 10,110.76           | 7,750.68            | 19.90           | 41.69       | 104.57                | 792.37                            | 7,456.15   | 7,952.44             | 7,892.60              | 59.84                   | 132.893           |                    |         |
| 5,600.00                                      | 5,539.23            | 10,100.95           | 7,750.59            | 20.29           | 41.57       | 104.50                | 802.18                            | 7,455.92   | 7,927.75             | 7,867.51              | 60.24                   | 131.607           |                    |         |
| 5,700.00                                      | 5,637.06            | 10,090.94           | 7,750.53            | 20.67           | 41.44       | 104.43                | 812.18                            | 7,455.69   | 7,904.22             | 7,843.59              | 60.63                   | 130.371           |                    |         |
| 5,800.00                                      | 5,734.90            | 10,080.72           | 7,750.48            | 21.05           | 41.31       | 104.36                | 822.41                            | 7,455.46   | 7,881.86             | 7,820.85              | 61.01                   | 129.185           |                    |         |
| 5,900.00                                      | 5,832.73            | 10,062.00           | 7,750.46            | 21.44           | 41.07       | 104.22                | 841.12                            | 7,455.05   | 7,860.70             | 7,799.42              | 61.28                   | 128.269           |                    |         |
| 6,000.00                                      | 5,930.56            | 10,058.31           | 7,750.46            | 21.83           | 41.03       | 104.19                | 844.81                            | 7,454.98   | 7,840.71             | 7,778.97              | 61.74                   | 126.993           |                    |         |
| 6,100.00                                      | 6,028.39            | 10,042.16           | 7,750.42            | 22.21           | 40.82       | 104.07                | 860.95                            | 7,454.66   | 7,821.91             | 7,759.88              | 62.04                   | 126.085           |                    |         |
| 6,200.00                                      | 6,126.23            | 10,026.70           | 7,750.31            | 22.60           | 40.63       | 103.96                | 876.41                            | 7,454.38   | 7,804.32             | 7,741.98              | 62.34                   | 125.198           |                    |         |
| 6,300.00                                      | 6,224.06            | 10,011.88           | 7,750.15            | 22.98           | 40.44       | 103.85                | 891.23                            | 7,454.13   | 7,787.93             | 7,725.29              | 62.64                   | 124.333           |                    |         |
| 6,400.00                                      | 6,321.89            | 9,997.67            | 7,749.94            | 23.37           | 40.26       | 103.75                | 905.44                            | 7,453.91   | 7,772.75             | 7,709.81              | 62.94                   | 123.493           |                    |         |
| 6,500.00                                      | 6,419.72            | 9,984.03            | 7,749.68            | 23.76           | 40.09       | 103.65                | 919.08                            | 7,453.72   | 7,758.80             | 7,695.56              | 63.25                   | 122.678           |                    |         |
| 6,600.00                                      | 6,517.56            | 9,979.70            | 7,749.59            | 24.14           | 40.04       | 103.62                | 923.40                            | 7,453.65   | 7,746.09             | 7,682.42              | 63.66                   | 121.677           |                    |         |
| 6,700.00                                      | 6,615.39            | 9,939.80            | 7,748.51            | 24.53           | 39.54       | 103.32                | 963.29                            | 7,453.17   | 7,734.60             | 7,670.98              | 63.62                   | 121.572           |                    |         |
| 6,800.00                                      | 6,713.22            | 9,903.91            | 7,747.20            | 24.92           | 39.09       | 103.06                | 999.15                            | 7,452.70   | 7,724.31             | 7,660.69              | 63.63                   | 121.402           |                    |         |
| 6,900.00                                      | 6,811.05            | 9,871.90            | 7,745.77            | 25.30           | 38.69       | 102.83                | 1,031.12                          | 7,452.24   | 7,715.23             | 7,651.56              | 63.67                   | 121.171           |                    |         |
| 7,000.00                                      | 6,908.89            | 9,849.14            | 7,744.73            | 25.69           | 38.41       | 102.66                | 1,053.86                          | 7,451.89   | 7,707.39             | 7,643.56              | 63.83                   | 120.747           |                    |         |
| 7,100.00                                      | 7,006.72            | 9,825.04            | 7,743.73            | 26.08           | 38.12       | 102.48                | 1,077.93                          | 7,451.47   | 7,700.78             | 7,636.82              | 63.97                   | 120.390           |                    |         |
| 7,200.00                                      | 7,104.55            | 9,799.48            | 7,742.80            | 26.47           | 37.80       | 102.29                | 1,103.47                          | 7,450.99   | 7,695.42             | 7,631.35              | 64.07                   | 120.103           |                    |         |
| 7,216.87                                      | 7,121.05            | 9,795.93            | 7,742.74            | 26.53           | 37.75       | 102.27                | 1,107.02                          | 7,450.92   | 7,694.64             | 7,630.54              | 64.10                   | 120.045           |                    |         |
| 7,300.00                                      | 7,202.57            | 9,773.26            | 7,741.98            | 26.85           | 37.48       | 102.05                | 1,129.67                          | 7,450.46   | 7,691.10             | 7,626.94              | 64.16                   | 119.865           |                    |         |
| 7,400.00                                      | 7,301.06            | 9,745.23            | 7,741.43            | 27.23           | 37.14       | 101.79                | 1,157.69                          | 7,449.82   | 7,687.50             | 7,623.27              | 64.22                   | 119.701           |                    |         |
| 7,500.00                                      | 7,399.97            | 9,544.41            | 7,744.75            | 27.61           | 34.72       | 100.27                | 1,358.30                          | 7,441.94   | 7,684.18             | 7,622.05              | 62.13                   | 123.679           |                    |         |
| 7,600.00                                      | 7,499.23            | 9,530.78            | 7,745.43            | 27.98           | 34.56       | 100.13                | 1,371.89                          | 7,441.24   | 7,681.71             | 7,619.37              | 62.34                   | 123.217           |                    |         |
| 7,700.00                                      | 7,598.77            | 9,517.79            | 7,746.20            | 28.34           | 34.41       | 100.01                | 1,384.85                          | 7,440.57   | 7,680.05             | 7,617.50              | 62.55                   | 122.785           |                    |         |
| 7,800.00                                      | 7,698.53            | 9,505.55            | 7,747.03            | 28.70           | 34.26       | 99.91                 | 1,397.04                          | 7,439.94   | 7,679.21             | 7,616.46              | 62.75                   | 122.380           |                    |         |
| 7,850.69                                      | 7,749.16            | 9,499.89            | 7,747.44            | 28.87           | 34.19       | 99.86                 | 1,402.68                          | 7,439.65   | 7,679.10             | 7,616.25              | 62.85                   | 122.182           |                    |         |
| 7,900.00                                      | 7,798.44            | 9,494.22            | 7,747.89            | 29.05           | 34.13       | 99.82                 | 1,408.32                          | 7,439.36   | 7,679.20             | 7,616.26              | 62.95                   | 121.997           |                    |         |
| 8,000.00                                      | 7,898.42            | 9,484.78            | 7,748.63            | 29.39           | 34.02       | 99.76                 | 1,417.72                          | 7,438.87   | 7,680.04             | 7,616.88              | 63.15                   | 121.611           |                    |         |
| 8,013.58                                      | 7,912.00            | 9,483.71            | 7,748.71            | 29.43           | 34.01       | 96.98                 | 1,418.79                          | 7,438.82   | 7,680.22             | 7,617.03              | 63.18                   | 121.557           |                    |         |
| 8,100.00                                      | 7,998.42            | 9,477.10            | 7,749.22            | 29.73           | 33.93       | 86.93                 | 1,425.36                          | 7,438.48   | 7,681.89             | 7,618.52              | 63.37                   | 121.225           |                    |         |
| 8,200.00                                      | 8,098.42            | 9,469.60            | 7,749.80            | 30.07           | 33.84       | 86.87                 | 1,432.84                          | 7,438.09   | 7,685.02             | 7,621.44              | 63.58                   | 120.872           |                    |         |
| 8,300.00                                      | 8,198.42            | 9,462.23            | 7,750.36            | 30.41           | 33.76       | 86.82                 | 1,440.17                          | 7,437.71   | 7,689.45             | 7,625.67              | 63.79                   | 120.552           |                    |         |
| 8,363.62                                      | 8,262.04            | 9,457.62            | 7,750.71            | 30.62           | 33.70       | 86.78                 | 1,444.77                          | 7,437.47   | 7,692.94             | 7,629.03              | 63.91                   | 120.365           |                    |         |
| 8,400.00                                      | 8,298.40            | 9,455.06            | 7,750.90            | 30.75           | 33.67       | -2.89                 | 1,447.32                          | 7,437.34   | 7,694.02             | 7,630.04              | 63.98                   | 120.252           |                    |         |
| 8,450.00                                      | 8,348.10            | 9,451.74            | 7,751.15            | 30.91           | 33.63       | -2.92                 | 1,450.62                          | 7,437.17   | 7,692.02             | 7,627.95              | 64.07                   | 120.051           |                    |         |
| 8,500.00                                      | 8,397.14            | 9,448.70            | 7,751.38            | 31.07           | 33.60       | -2.98                 | 1,453.65                          | 7,437.01   | 7,686.00             | 7,621.83              | 64.16                   | 119.792           |                    |         |
| 8,550.00                                      | 8,445.15            | 9,445.93            | 7,751.58            | 31.23           | 33.57       | -3.05                 | 1,456.41                          | 7,436.87   | 7,675.99             | 7,611.74              | 64.25                   | 119.478           |                    |         |
| 8,600.00                                      | 8,491.77            | 9,443.46            | 7,751.77            | 31.38           | 33.54       | -3.15                 | 1,458.87                          | 7,436.74   | 7,662.06             | 7,597.74              | 64.33                   | 119.113           |                    |         |
| 8,650.00                                      | 8,536.65            | 9,441.30            | 7,751.93            | 31.52           | 33.51       | -3.27                 | 1,461.02                          | 7,436.63   | 7,644.30             | 7,579.90              | 64.40                   | 118.699           |                    |         |
| 8,700.00                                      | 8,579.43            | 9,439.46            | 7,752.06            | 31.66           | 33.49       | -3.43                 | 1,462.85                          | 7,436.54   | 7,622.80             | 7,558.34              | 64.47                   | 118.240           |                    |         |
| 8,750.00                                      | 8,619.80            | 9,437.96            | 7,752.17            | 31.80           | 33.47       | -3.62                 | 1,464.35                          | 7,436.46   | 7,597.72             | 7,533.19              | 64.53                   | 117.739           |                    |         |
| 8,800.00                                      | 8,657.44            | 9,436.79            | 7,752.26            | 31.93           | 33.46       | -3.86                 | 1,465.51                          | 7,436.40   | 7,569.19             | 7,504.61              | 64.58                   | 117.198           |                    |         |
| 8,850.00                                      | 8,692.08            | 9,435.97            | 7,752.32            | 32.06           | 33.45       | -4.15                 | 1,466.33                          | 7,436.36   | 7,537.41             | 7,472.77              | 64.63                   | 116.620           |                    |         |
| 8,900.00                                      | 8,723.44            | 9,435.49            | 7,752.35            | 32.19           | 33.44       | -4.53                 | 1,466.81                          | 7,436.33   | 7,502.56             | 7,437.89              | 64.67                   | 116.008           |                    |         |
| 8,950.00                                      | 8,751.29            | 9,435.36            | 7,752.36            | 32.34           | 33.44       | -5.00                 | 1,466.94                          | 7,436.33   | 7,464.89             | 7,400.18              | 64.71                   | 115.365           |                    |         |
| 9,000.00                                      | 8,775.42            | 9,435.57            | 7,752.35            | 32.50           | 33.45       | -5.63                 | 1,466.73                          | 7,436.34   | 7,424.63             | 7,359.90              | 64.74                   | 114.692           |                    |         |
| 9,050.00                                      | 8,795.64            | 9,436.12            | 7,752.31            | 32.67           | 33.45       | -6.48                 | 1,466.18                          | 7,436.36   | 7,382.05             | 7,317.29              | 64.76                   | 113.993           |                    |         |
| 9,100.00                                      | 8,811.80            | 9,437.00            | 7,752.24            | 32.87           | 33.46       | -7.69                 | 1,465.30                          | 7,436.41   | 7,337.44             | 7,272.66              | 64.78                   | 113.270           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw State 7H - Wellbore #1 - Wellbore #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | <b>Offset Site Error:</b> | 5.00 ft |
|---------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|---------------------------|---------|
| <b>Survey Program:</b> 100-GYRO-NS-CT, 2922-MWD+HDGM                                        |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning                   |         |
| Measured Depth (ft)                                                                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                           |         |
| 9,150.00                                                                                    | 8,823.77            | 9,438.21            | 7,752.15            | 33.10           | 33.48       | -9.51                 | 1,464.09                          | 7,436.47   | 7,291.10             | 7,226.30              | 64.79                   | 112.526           |                           |         |
| 9,200.00                                                                                    | 8,831.47            | 9,439.74            | 7,752.04            | 33.34           | 33.49       | -12.56                | 1,462.57                          | 7,436.55   | 7,243.35             | 7,178.54              | 64.81                   | 111.763           |                           |         |
| 9,250.00                                                                                    | 8,834.84            | 9,441.58            | 7,751.90            | 33.60           | 33.52       | -18.57                | 1,460.74                          | 7,436.65   | 7,194.54             | 7,129.72              | 64.83                   | 110.982           |                           |         |
| 9,263.62                                                                                    | 8,835.00            | 9,442.13            | 7,751.86            | 33.67           | 33.52       | -21.34                | 1,460.19                          | 7,436.67   | 7,181.11             | 7,116.28              | 64.83                   | 110.765           |                           |         |
| 9,300.00                                                                                    | 8,835.00            | 9,443.64            | 7,751.75            | 33.88           | 33.54       | -21.26                | 1,458.69                          | 7,436.75   | 7,145.16             | 7,080.32              | 64.84                   | 110.191           |                           |         |
| 9,400.00                                                                                    | 8,835.00            | 9,447.78            | 7,751.45            | 34.53           | 33.59       | -21.05                | 1,454.57                          | 7,436.97   | 7,046.37             | 6,981.49              | 64.87                   | 108.616           |                           |         |
| 9,500.00                                                                                    | 8,835.00            | 9,451.91            | 7,751.14            | 35.30           | 33.64       | -20.85                | 1,450.45                          | 7,437.18   | 6,947.61             | 6,882.70              | 64.91                   | 107.042           |                           |         |
| 9,600.00                                                                                    | 8,835.00            | 9,456.05            | 7,750.83            | 36.17           | 33.68       | -20.64                | 1,446.33                          | 7,437.39   | 6,848.88             | 6,783.94              | 64.94                   | 105.467           |                           |         |
| 9,700.00                                                                                    | 8,835.00            | 9,460.19            | 7,750.52            | 37.13           | 33.73       | -20.43                | 1,442.21                          | 7,437.60   | 6,750.19             | 6,685.22              | 64.97                   | 103.893           |                           |         |
| 9,800.00                                                                                    | 8,835.00            | 9,464.32            | 7,750.20            | 38.18           | 33.78       | -20.23                | 1,438.09                          | 7,437.82   | 6,651.53             | 6,586.53              | 65.01                   | 102.320           |                           |         |
| 9,900.00                                                                                    | 8,835.00            | 9,468.46            | 7,749.89            | 39.31           | 33.83       | -20.02                | 1,433.97                          | 7,438.03   | 6,552.92             | 6,487.87              | 65.04                   | 100.747           |                           |         |
| 10,000.00                                                                                   | 8,835.00            | 9,472.60            | 7,749.57            | 40.51           | 33.88       | -19.81                | 1,429.85                          | 7,438.24   | 6,454.34             | 6,389.26              | 65.08                   | 99.175            |                           |         |
| 10,100.00                                                                                   | 8,835.00            | 9,476.73            | 7,749.25            | 41.78           | 33.92       | -19.60                | 1,425.73                          | 7,438.46   | 6,355.80             | 6,290.68              | 65.12                   | 97.603            |                           |         |
| 10,200.00                                                                                   | 8,835.00            | 9,480.87            | 7,748.93            | 43.10           | 33.97       | -19.39                | 1,421.62                          | 7,438.67   | 6,257.31             | 6,192.15              | 65.16                   | 96.032            |                           |         |
| 10,300.00                                                                                   | 8,835.00            | 9,485.00            | 7,748.61            | 44.49           | 34.02       | -19.18                | 1,417.50                          | 7,438.88   | 6,158.86             | 6,093.66              | 65.20                   | 94.462            |                           |         |
| 10,400.00                                                                                   | 8,835.00            | 9,489.14            | 7,748.29            | 45.92           | 34.07       | -18.97                | 1,413.38                          | 7,439.10   | 6,060.46             | 5,995.22              | 65.24                   | 92.894            |                           |         |
| 10,500.00                                                                                   | 8,835.00            | 9,493.27            | 7,747.96            | 47.39           | 34.12       | -18.76                | 1,409.27                          | 7,439.31   | 5,962.11             | 5,896.83              | 65.28                   | 91.326            |                           |         |
| 10,600.00                                                                                   | 8,835.00            | 9,503.84            | 7,747.15            | 48.91           | 34.24       | -18.22                | 1,398.75                          | 7,439.85   | 5,863.81             | 5,798.41              | 65.40                   | 89.656            |                           |         |
| 10,700.00                                                                                   | 8,835.00            | 9,519.05            | 7,746.12            | 50.47           | 34.42       | -17.44                | 1,383.59                          | 7,440.64   | 5,765.56             | 5,699.98              | 65.58                   | 87.920            |                           |         |
| 10,800.00                                                                                   | 8,835.00            | 9,534.27            | 7,745.25            | 52.06           | 34.60       | -16.65                | 1,368.41                          | 7,441.42   | 5,667.36             | 5,601.61              | 65.75                   | 86.193            |                           |         |
| 10,900.00                                                                                   | 8,835.00            | 10,900.00           | 7,741.95            | 53.68           | 51.24       | -5.66                 | 1,162.37                          | 7,449.60   | 5,569.04             | 5,486.87              | 82.17                   | 67.774            |                           |         |
| 11,000.00                                                                                   | 8,835.00            | 11,000.00           | 7,741.95            | 55.32           | 52.46       | -5.55                 | 1,160.41                          | 7,449.65   | 5,470.83             | 5,387.47              | 83.36                   | 65.626            |                           |         |
| 11,100.00                                                                                   | 8,835.00            | 9,815.09            | 7,743.36            | 57.00           | 37.99       | -1.56                 | 1,087.87                          | 7,451.29   | 5,372.74             | 5,303.66              | 69.08                   | 77.780            |                           |         |
| 11,200.00                                                                                   | 8,835.00            | 9,817.79            | 7,743.46            | 58.70           | 38.03       | -1.41                 | 1,085.17                          | 7,451.34   | 5,274.64             | 5,205.54              | 69.10                   | 76.333            |                           |         |
| 11,300.00                                                                                   | 8,835.00            | 9,820.42            | 7,743.56            | 60.41           | 38.06       | -1.26                 | 1,082.55                          | 7,451.39   | 5,176.62             | 5,107.49              | 69.12                   | 74.888            |                           |         |
| 11,400.00                                                                                   | 8,835.00            | 9,822.97            | 7,743.65            | 62.15           | 38.09       | -1.12                 | 1,079.99                          | 7,451.44   | 5,078.67             | 5,009.52              | 69.15                   | 73.445            |                           |         |
| 11,500.00                                                                                   | 8,835.00            | 9,825.46            | 7,743.75            | 63.91           | 38.12       | -0.98                 | 1,077.51                          | 7,451.48   | 4,980.81             | 4,911.63              | 69.17                   | 72.004            |                           |         |
| 11,600.00                                                                                   | 8,835.00            | 9,827.89            | 7,743.85            | 65.69           | 38.15       | -0.85                 | 1,075.09                          | 7,451.52   | 4,883.03             | 4,813.83              | 69.20                   | 70.566            |                           |         |
| 11,700.00                                                                                   | 8,835.00            | 9,830.25            | 7,743.94            | 67.47           | 38.18       | -0.72                 | 1,072.73                          | 7,451.57   | 4,785.34             | 4,716.12              | 69.22                   | 69.130            |                           |         |
| 11,800.00                                                                                   | 8,835.00            | 9,832.55            | 7,744.03            | 69.28           | 38.21       | -0.59                 | 1,070.43                          | 7,451.61   | 4,687.75             | 4,618.50              | 69.25                   | 67.696            |                           |         |
| 11,900.00                                                                                   | 8,835.00            | 9,834.79            | 7,744.12            | 71.09           | 38.24       | -0.47                 | 1,068.19                          | 7,451.65   | 4,590.26             | 4,520.99              | 69.27                   | 66.264            |                           |         |
| 12,000.00                                                                                   | 8,835.00            | 9,836.98            | 7,744.21            | 72.92           | 38.26       | -0.35                 | 1,066.00                          | 7,451.68   | 4,492.88             | 4,423.59              | 69.30                   | 64.835            |                           |         |
| 12,100.00                                                                                   | 8,835.00            | 9,839.11            | 7,744.30            | 74.76           | 38.29       | -0.23                 | 1,063.87                          | 7,451.72   | 4,395.62             | 4,326.30              | 69.32                   | 63.408            |                           |         |
| 12,200.00                                                                                   | 8,835.00            | 9,841.19            | 7,744.39            | 76.61           | 38.31       | -0.11                 | 1,061.79                          | 7,451.75   | 4,298.49             | 4,229.14              | 69.35                   | 61.983            |                           |         |
| 12,300.00                                                                                   | 8,835.00            | 9,843.23            | 7,744.48            | 78.47           | 38.34       | 0.00                  | 1,059.76                          | 7,451.79   | 4,201.48             | 4,132.11              | 69.38                   | 60.560            |                           |         |
| 12,400.00                                                                                   | 8,835.00            | 9,845.21            | 7,744.56            | 80.34           | 38.36       | 0.11                  | 1,057.78                          | 7,451.82   | 4,104.63             | 4,035.22              | 69.41                   | 59.139            |                           |         |
| 12,500.00                                                                                   | 8,835.00            | 9,847.15            | 7,744.64            | 82.22           | 38.39       | 0.22                  | 1,055.84                          | 7,451.85   | 4,007.92             | 3,938.48              | 69.44                   | 57.721            |                           |         |
| 12,600.00                                                                                   | 8,835.00            | 9,849.04            | 7,744.73            | 84.11           | 38.41       | 0.32                  | 1,053.95                          | 7,451.88   | 3,911.38             | 3,841.91              | 69.47                   | 56.305            |                           |         |
| 12,700.00                                                                                   | 8,835.00            | 9,850.89            | 7,744.81            | 86.00           | 38.43       | 0.43                  | 1,052.11                          | 7,451.92   | 3,815.02             | 3,745.52              | 69.50                   | 54.891            |                           |         |
| 12,800.00                                                                                   | 8,835.00            | 9,852.70            | 7,744.89            | 87.90           | 38.46       | 0.53                  | 1,050.30                          | 7,451.94   | 3,718.85             | 3,649.31              | 69.54                   | 53.480            |                           |         |
| 12,900.00                                                                                   | 8,835.00            | 9,854.46            | 7,744.97            | 89.81           | 38.48       | 0.62                  | 1,048.53                          | 7,451.97   | 3,622.88             | 3,553.31              | 69.58                   | 52.071            |                           |         |
| 13,000.00                                                                                   | 8,835.00            | 9,856.19            | 7,745.04            | 91.72           | 38.50       | 0.72                  | 1,046.81                          | 7,452.00   | 3,527.15             | 3,457.53              | 69.62                   | 50.664            |                           |         |
| 13,100.00                                                                                   | 8,835.00            | 9,857.88            | 7,745.12            | 93.64           | 38.52       | 0.81                  | 1,045.12                          | 7,452.03   | 3,431.65             | 3,361.98              | 69.66                   | 49.260            |                           |         |
| 13,200.00                                                                                   | 8,835.00            | 9,859.54            | 7,745.20            | 95.56           | 38.54       | 0.91                  | 1,043.47                          | 7,452.05   | 3,336.41             | 3,266.70              | 69.71                   | 47.859            |                           |         |
| 13,300.00                                                                                   | 8,835.00            | 9,861.15            | 7,745.27            | 97.49           | 38.56       | 1.00                  | 1,041.85                          | 7,452.08   | 3,241.47             | 3,171.70              | 69.77                   | 46.460            |                           |         |
| 13,400.00                                                                                   | 8,835.00            | 9,862.74            | 7,745.34            | 99.42           | 38.58       | 1.08                  | 1,040.27                          | 7,452.10   | 3,146.83             | 3,077.00              | 69.83                   | 45.065            |                           |         |
| 13,500.00                                                                                   | 8,835.00            | 9,864.29            | 7,745.41            | 101.36          | 38.60       | 1.17                  | 1,038.72                          | 7,452.13   | 3,052.54             | 2,982.64              | 69.90                   | 43.672            |                           |         |
| 13,600.00                                                                                   | 8,835.00            | 9,865.81            | 7,745.49            | 103.30          | 38.62       | 1.25                  | 1,037.20                          | 7,452.15   | 2,958.62             | 2,888.65              | 69.97                   | 42.283            |                           |         |
| 13,700.00                                                                                   | 8,835.00            | 9,867.30            | 7,745.56            | 105.25          | 38.64       | 1.34                  | 1,035.72                          | 7,452.17   | 2,865.11             | 2,795.05              | 70.06                   | 40.897            |                           |         |
| 13,800.00                                                                                   | 8,835.00            | 9,868.75            | 7,745.62            | 107.20          | 38.65       | 1.42                  | 1,034.26                          | 7,452.19   | 2,772.06             | 2,701.90              | 70.15                   | 39.515            |                           |         |
| 13,900.00                                                                                   | 8,835.00            | 9,870.18            | 7,745.69            | 109.15          | 38.67       | 1.50                  | 1,032.84                          | 7,452.22   | 2,679.50             | 2,609.24              | 70.26                   | 38.137            |                           |         |
| 14,000.00                                                                                   | 8,835.00            | 9,871.58            | 7,745.76            | 111.10          | 38.69       | 1.57                  | 1,031.44                          | 7,452.24   | 2,587.50             | 2,517.12              | 70.38                   | 36.763            |                           |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Sec 13-T21S-R27E - Lone Tree Draw State 7H - Wellbore #1 - Wellbore #1 |         | Offset Site Error: 5.00 ft |  |
|-----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|------------------------------------------------------------------------|---------|----------------------------|--|
| Survey Program: 100-GYRO-NS-CT, 2922-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: 0.50 ft                                             |         |                            |  |
| Reference                                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                                                                        | Warning |                            |  |
| Measured Depth (ft)                           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                                                                        |         |                            |  |
| 14,100.00                                     | 8,835.00            | 9,872.95            | 7,745.83            | 113.06          | 38.71       | 1.65                  | 1,030.07                          | 7,452.26   | 2,496.11             | 2,425.59              | 70.52                   | 35.395            |                                                                        |         |                            |  |
| 14,200.00                                     | 8,835.00            | 9,874.30            | 7,745.89            | 115.03          | 38.72       | 1.72                  | 1,028.72                          | 7,452.28   | 2,405.41             | 2,334.73              | 70.68                   | 34.033            |                                                                        |         |                            |  |
| 14,300.00                                     | 8,835.00            | 9,875.62            | 7,745.96            | 116.99          | 38.74       | 1.80                  | 1,027.41                          | 7,452.30   | 2,315.48             | 2,244.62              | 70.86                   | 32.677            |                                                                        |         |                            |  |
| 14,400.00                                     | 8,835.00            | 9,876.91            | 7,746.02            | 118.96          | 38.75       | 1.87                  | 1,026.12                          | 7,452.32   | 2,226.40             | 2,155.33              | 71.07                   | 31.329            |                                                                        |         |                            |  |
| 14,500.00                                     | 8,835.00            | 9,878.18            | 7,746.08            | 120.93          | 38.77       | 1.94                  | 1,024.85                          | 7,452.33   | 2,138.29             | 2,066.99              | 71.30                   | 29.990            |                                                                        |         |                            |  |
| 14,600.00                                     | 8,835.00            | 9,879.43            | 7,746.14            | 122.90          | 38.79       | 2.01                  | 1,023.60                          | 7,452.35   | 2,051.26             | 1,979.69              | 71.57                   | 28.662            |                                                                        |         |                            |  |
| 14,700.00                                     | 8,835.00            | 9,880.65            | 7,746.20            | 124.88          | 38.80       | 2.08                  | 1,022.38                          | 7,452.37   | 1,965.47             | 1,893.60              | 71.87                   | 27.346            |                                                                        |         |                            |  |
| 14,800.00                                     | 8,835.00            | 9,881.85            | 7,746.26            | 126.86          | 38.82       | 2.14                  | 1,021.18                          | 7,452.39   | 1,881.09             | 1,808.87              | 72.22                   | 26.046            |                                                                        |         |                            |  |
| 14,900.00                                     | 8,835.00            | 9,883.03            | 7,746.32            | 128.84          | 38.83       | 2.21                  | 1,020.01                          | 7,452.40   | 1,798.31             | 1,725.69              | 72.62                   | 24.764            |                                                                        |         |                            |  |
| 15,000.00                                     | 8,835.00            | 9,884.18            | 7,746.38            | 130.82          | 38.84       | 2.27                  | 1,018.85                          | 7,452.42   | 1,717.36             | 1,644.29              | 73.07                   | 23.504            |                                                                        |         |                            |  |
| 15,100.00                                     | 8,835.00            | 9,885.32            | 7,746.44            | 132.80          | 38.86       | 2.34                  | 1,017.72                          | 7,452.44   | 1,638.51             | 1,564.94              | 73.57                   | 22.271            |                                                                        |         |                            |  |
| 15,200.00                                     | 8,835.00            | 9,886.43            | 7,746.49            | 134.79          | 38.87       | 2.40                  | 1,016.61                          | 7,452.45   | 1,562.09             | 1,487.95              | 74.14                   | 21.070            |                                                                        |         |                            |  |
| 15,300.00                                     | 8,835.00            | 9,887.53            | 7,746.55            | 136.78          | 38.89       | 2.46                  | 1,015.51                          | 7,452.47   | 1,488.46             | 1,413.70              | 74.77                   | 19.908            |                                                                        |         |                            |  |
| 15,400.00                                     | 8,835.00            | 9,888.61            | 7,746.61            | 138.76          | 38.90       | 2.52                  | 1,014.44                          | 7,452.48   | 1,418.07             | 1,342.61              | 75.46                   | 18.793            |                                                                        |         |                            |  |
| 15,500.00                                     | 8,835.00            | 9,889.66            | 7,746.66            | 140.76          | 38.91       | 2.58                  | 1,013.38                          | 7,452.50   | 1,351.41             | 1,275.20              | 76.21                   | 17.732            |                                                                        |         |                            |  |
| 15,600.00                                     | 8,835.00            | 9,890.70            | 7,746.71            | 142.75          | 38.92       | 2.64                  | 1,012.34                          | 7,452.51   | 1,289.08             | 1,212.06              | 77.02                   | 16.737            |                                                                        |         |                            |  |
| 15,700.00                                     | 8,835.00            | 9,891.73            | 7,746.77            | 144.74          | 38.94       | 2.69                  | 1,011.32                          | 7,452.52   | 1,231.71             | 1,153.84              | 77.87                   | 15.817            |                                                                        |         |                            |  |
| 15,800.00                                     | 8,835.00            | 9,892.73            | 7,746.82            | 146.74          | 38.96       | 2.73                  | 1,010.34                          | 7,452.53   | 1,180.09             | 1,101.42              | 78.67                   | 15.001            |                                                                        |         |                            |  |
| 15,900.00                                     | 8,835.00            | 9,893.70            | 7,746.87            | 148.73          | 38.97       | 2.77                  | 1,009.38                          | 7,452.54   | 1,134.91             | 1,055.33              | 79.58                   | 14.260            |                                                                        |         |                            |  |
| 16,000.00                                     | 8,835.00            | 9,894.65            | 7,746.91            | 150.73          | 38.98       | 2.81                  | 1,008.44                          | 7,452.55   | 1,097.01             | 1,016.48              | 80.53                   | 13.622            |                                                                        |         |                            |  |
| 16,100.00                                     | 8,835.00            | 9,895.58            | 7,746.95            | 152.73          | 38.98       | 2.84                  | 1,007.51                          | 7,452.56   | 1,067.16             | 985.64                | 81.51                   | 13.092            |                                                                        |         |                            |  |
| 16,200.00                                     | 8,835.00            | 9,896.49            | 7,746.99            | 154.73          | 38.99       | 2.88                  | 1,006.61                          | 7,452.57   | 1,046.05             | 963.50                | 82.55                   | 12.671            |                                                                        |         |                            |  |
| 16,300.00                                     | 8,835.00            | 9,897.38            | 7,747.03            | 156.73          | 38.99       | 2.92                  | 1,005.72                          | 7,452.58   | 1,034.22             | 950.56                | 83.67                   | 12.361            |                                                                        |         |                            |  |
| 16,373.02                                     | 8,835.00            | 9,898.06            | 7,747.07            | 158.20          | 38.99       | 2.95                  | 1,005.00                          | 7,452.59   | 1,031.64             | 947.12                | 84.52                   | 12.206            | CC, ES                                                                 |         |                            |  |
| 16,400.00                                     | 8,835.00            | 9,898.24            | 7,747.08            | 158.74          | 38.99       | 2.98                  | 1,004.38                          | 7,452.59   | 1,032.00             | 947.15                | 84.84                   | 12.164            |                                                                        |         |                            |  |
| 16,500.00                                     | 8,835.00            | 9,898.90            | 7,747.11            | 160.74          | 38.99       | 2.99                  | 1,003.94                          | 7,452.60   | 1,039.43             | 953.39                | 86.04                   | 12.081            | SF                                                                     |         |                            |  |
| 16,600.00                                     | 8,835.00            | 9,899.56            | 7,747.14            | 162.74          | 38.99       | 2.99                  | 1,003.58                          | 7,452.61   | 1,056.32             | 969.14                | 87.18                   | 12.117            |                                                                        |         |                            |  |
| 16,700.00                                     | 8,835.00            | 9,899.22            | 7,747.17            | 164.75          | 38.99       | 2.99                  | 1,003.28                          | 7,452.62   | 1,082.22             | 994.04                | 88.18                   | 12.273            |                                                                        |         |                            |  |
| 16,800.00                                     | 8,835.00            | 9,898.87            | 7,747.20            | 166.76          | 38.99       | 2.99                  | 1,003.00                          | 7,452.63   | 1,116.51             | 1,027.53              | 88.98                   | 12.548            |                                                                        |         |                            |  |
| 16,900.00                                     | 8,835.00            | 9,898.52            | 7,747.22            | 168.77          | 38.99       | 2.99                  | 1,002.72                          | 7,452.64   | 1,158.44             | 1,068.88              | 89.56                   | 12.935            |                                                                        |         |                            |  |
| 17,000.00                                     | 8,835.00            | 9,898.16            | 7,747.25            | 170.77          | 38.99       | 2.99                  | 1,002.44                          | 7,452.65   | 1,207.22             | 1,117.30              | 89.92                   | 13.426            |                                                                        |         |                            |  |
| 17,100.00                                     | 8,835.00            | 9,897.80            | 7,747.28            | 172.78          | 38.97       | 2.81                  | 1,009.24                          | 7,452.56   | 1,262.05             | 1,171.97              | 90.08                   | 14.011            |                                                                        |         |                            |  |
| 17,200.00                                     | 8,835.00            | 9,897.44            | 7,747.31            | 174.79          | 38.97       | 2.84                  | 1,008.61                          | 7,452.57   | 1,322.18             | 1,232.11              | 90.07                   | 14.679            |                                                                        |         |                            |  |
| 17,300.00                                     | 8,835.00            | 9,897.08            | 7,747.34            | 176.81          | 38.98       | 2.88                  | 1,007.97                          | 7,452.58   | 1,386.92             | 1,296.98              | 89.94                   | 15.421            |                                                                        |         |                            |  |
| 17,400.00                                     | 8,835.00            | 9,896.71            | 7,747.37            | 178.82          | 38.99       | 2.91                  | 1,007.34                          | 7,452.59   | 1,455.65             | 1,365.95              | 89.71                   | 16.227            |                                                                        |         |                            |  |
| 17,500.00                                     | 8,835.00            | 9,896.34            | 7,747.40            | 180.83          | 39.00       | 2.95                  | 1,006.71                          | 7,452.60   | 1,527.85             | 1,438.43              | 89.41                   | 17.087            |                                                                        |         |                            |  |
| 17,600.00                                     | 8,835.00            | 9,896.00            | 7,747.43            | 182.84          | 39.01       | 2.98                  | 1,006.09                          | 7,452.60   | 1,603.03             | 1,513.95              | 89.08                   | 17.996            |                                                                        |         |                            |  |
| 17,700.00                                     | 8,835.00            | 9,895.68            | 7,747.46            | 184.86          | 39.01       | 3.02                  | 1,005.47                          | 7,452.61   | 1,680.80             | 1,592.08              | 88.72                   | 18.945            |                                                                        |         |                            |  |
| 17,800.00                                     | 8,835.00            | 9,895.32            | 7,747.49            | 186.87          | 39.02       | 3.05                  | 1,004.85                          | 7,452.62   | 1,760.81             | 1,672.47              | 88.35                   | 19.930            |                                                                        |         |                            |  |
| 17,900.00                                     | 8,835.00            | 9,894.92            | 7,747.52            | 188.89          | 39.03       | 3.09                  | 1,004.23                          | 7,452.63   | 1,842.78             | 1,754.80              | 87.98                   | 20.946            |                                                                        |         |                            |  |
| 18,000.00                                     | 8,835.00            | 9,894.50            | 7,747.55            | 190.91          | 39.04       | 3.12                  | 1,003.62                          | 7,452.64   | 1,926.45             | 1,838.84              | 87.62                   | 21.988            |                                                                        |         |                            |  |
| 18,100.00                                     | 8,835.00            | 9,900.04            | 7,747.05            | 192.92          | 39.04       | 3.15                  | 1,003.01                          | 7,452.65   | 2,011.62             | 1,924.35              | 87.26                   | 23.052            |                                                                        |         |                            |  |
| 18,200.00                                     | 8,835.00            | 9,900.65            | 7,747.07            | 194.94          | 39.05       | 3.19                  | 1,002.41                          | 7,452.66   | 2,098.09             | 2,011.16              | 86.93                   | 24.136            |                                                                        |         |                            |  |
| 18,300.00                                     | 8,835.00            | 9,901.25            | 7,747.10            | 196.96          | 39.06       | 3.22                  | 1,001.80                          | 7,452.66   | 2,185.72             | 2,099.11              | 86.61                   | 25.236            |                                                                        |         |                            |  |
| 18,400.00                                     | 8,835.00            | 9,901.85            | 7,747.12            | 198.98          | 39.07       | 3.25                  | 1,001.20                          | 7,452.67   | 2,274.37             | 2,188.05              | 86.31                   | 26.351            |                                                                        |         |                            |  |
| 18,500.00                                     | 8,835.00            | 9,902.45            | 7,747.14            | 201.00          | 39.07       | 3.29                  | 1,000.61                          | 7,452.68   | 2,363.92             | 2,277.89              | 86.03                   | 27.478            |                                                                        |         |                            |  |
| 18,600.00                                     | 8,835.00            | 9,903.04            | 7,747.17            | 203.02          | 39.08       | 3.32                  | 1,000.01                          | 7,452.69   | 2,454.28             | 2,368.51              | 85.77                   | 28.615            |                                                                        |         |                            |  |
| 18,700.00                                     | 8,835.00            | 9,903.63            | 7,747.19            | 205.04          | 39.09       | 3.35                  | 999.42                            | 7,452.70   | 2,545.36             | 2,459.84              | 85.52                   | 29.762            |                                                                        |         |                            |  |
| 18,800.00                                     | 8,835.00            | 9,904.22            | 7,747.22            | 207.06          | 39.10       | 3.39                  | 998.84                            | 7,452.70   | 2,637.09             | 2,551.79              | 85.30                   | 30.916            |                                                                        |         |                            |  |
| 18,900.00                                     | 8,835.00            | 9,904.80            | 7,747.24            | 209.08          | 39.10       | 3.42                  | 998.25                            | 7,452.71   | 2,729.40             | 2,644.31              | 85.09                   | 32.077            |                                                                        |         |                            |  |
| 19,000.00                                     | 8,835.00            | 9,905.39            | 7,747.26            | 211.10          | 39.11       | 3.45                  | 997.67                            | 7,452.72   | 2,822.23             | 2,737.33              | 84.90                   | 33.243            |                                                                        |         |                            |  |
| 19,100.00                                     | 8,835.00            | 9,905.97            | 7,747.29            | 213.12          | 39.12       | 3.48                  | 997.09                            | 7,452.73   | 2,915.54             | 2,830.82              | 84.72                   | 34.414            |                                                                        |         |                            |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw State 7H - Wellbore #1 - Wellbore #1 |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Site Error:</b> | 5.00 ft |
|---------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|-----------------------------------------|---------------|-------------------------|--------------------------|----------------------------|---------------------------|---------|
| Survey Program: 100-GYRO-NS-CT, 2922-MWD+HDGM                                               |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                   |                        | Offset                 |                        | Semi Major Axis   |                |                          | Distance                                |               |                         |                          |                            |                           | Warning |
| Measured Depth<br>(ft)                                                                      | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between Centres<br>(ft) | Between Ellipses<br>(ft) | Minimum Separation<br>(ft) | Separation Factor         |         |
| 19,200.00                                                                                   | 8,835.00               | 9,906.54               | 7,747.31               | 215.15            | 39.12          | 3.52                     | 996.51                                  | 7,452.74      | 3,009.27                | 2,924.71                 | 84.56                      | 35.588                    |         |
| 19,308.27                                                                                   | 8,835.00               | 9,907.16               | 7,747.34               | 217.34            | 39.13          | 3.55                     | 995.89                                  | 7,452.75      | 3,111.20                | 3,026.80                 | 84.40                      | 36.864                    |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 80-GYRO-NS-CT, 4361-MWD+HDMG |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                                         | 0.00                | 0.00                | 0.00                | 0.50            | 5.02        | 61.82                 | 3,098.47                          | 5,783.09   | 6,561.05             |                       |                         |                   |                    |         |
| 100.00                                       | 100.00              | 44.15               | 44.15               | 0.52            | 5.03        | 61.82                 | 3,098.46                          | 5,783.11   | 6,560.86             | 6,555.31              | 5.54                    | 1,183.637         |                    |         |
| 200.00                                       | 200.00              | 139.73              | 139.73              | 0.70            | 5.03        | 61.82                 | 3,098.39                          | 5,783.26   | 6,560.96             | 6,555.23              | 5.74                    | 1,143.782         |                    |         |
| 300.00                                       | 300.00              | 235.12              | 235.12              | 0.99            | 5.07        | 61.82                 | 3,098.28                          | 5,783.49   | 6,561.12             | 6,555.07              | 6.05                    | 1,084.034         |                    |         |
| 400.00                                       | 400.00              | 332.24              | 332.24              | 1.31            | 5.12        | 61.82                 | 3,098.14                          | 5,783.82   | 6,561.35             | 6,554.92              | 6.43                    | 1,020.730         |                    |         |
| 500.00                                       | 500.00              | 425.78              | 425.77              | 1.65            | 5.19        | 61.83                 | 3,097.94                          | 5,784.22   | 6,561.63             | 6,554.79              | 6.84                    | 959.655           |                    |         |
| 600.00                                       | 600.00              | 519.62              | 519.61              | 1.99            | 5.28        | 61.83                 | 3,097.68                          | 5,784.79   | 6,562.03             | 6,554.75              | 7.27                    | 902.111           |                    |         |
| 700.00                                       | 700.00              | 610.56              | 610.55              | 2.34            | 5.39        | 61.84                 | 3,097.30                          | 5,785.50   | 6,562.52             | 6,554.79              | 7.73                    | 849.000           |                    |         |
| 800.00                                       | 800.00              | 709.60              | 709.59              | 2.69            | 5.53        | 61.85                 | 3,096.77                          | 5,786.47   | 6,563.13             | 6,554.92              | 8.22                    | 798.807           |                    |         |
| 900.00                                       | 900.00              | 805.23              | 805.20              | 3.04            | 5.68        | 61.86                 | 3,095.91                          | 5,787.58   | 6,563.73             | 6,555.01              | 8.72                    | 752.979           |                    |         |
| 1,000.00                                     | 1,000.00            | 893.68              | 893.64              | 3.40            | 5.83        | 61.87                 | 3,094.99                          | 5,788.81   | 6,564.47             | 6,555.24              | 9.22                    | 711.818           |                    |         |
| 1,100.00                                     | 1,100.00            | 984.35              | 984.29              | 3.75            | 5.99        | 61.88                 | 3,093.88                          | 5,790.34   | 6,565.38             | 6,555.64              | 9.75                    | 673.708           |                    |         |
| 1,200.00                                     | 1,200.00            | 1,087.89            | 1,087.80            | 4.11            | 6.20        | 61.90                 | 3,092.43                          | 5,792.27   | 6,566.36             | 6,556.05              | 10.31                   | 637.046           |                    |         |
| 1,300.00                                     | 1,300.00            | 1,199.53            | 1,199.40            | 4.46            | 6.44        | 61.93                 | 3,090.37                          | 5,794.42   | 6,567.19             | 6,556.29              | 10.90                   | 602.295           |                    |         |
| 1,400.00                                     | 1,400.00            | 1,308.67            | 1,308.48            | 4.82            | 6.69        | 61.96                 | 3,087.61                          | 5,796.72   | 6,567.86             | 6,556.35              | 11.51                   | 570.577           |                    |         |
| 1,500.00                                     | 1,500.00            | 8,298.97            | 4,955.97            | 5.18            | 53.99       | 95.38                 | -517.11                           | 5,495.56   | 6,540.11             | 6,487.52              | 52.59                   | 124.363           |                    |         |
| 1,600.00                                     | 1,600.00            | 8,329.00            | 4,956.38            | 5.53            | 54.40       | 95.69                 | -546.99                           | 5,492.67   | 6,487.24             | 6,433.70              | 53.54                   | 121.174           |                    |         |
| 1,700.00                                     | 1,700.00            | 8,329.00            | 4,956.38            | 5.89            | 54.40       | 95.69                 | -546.99                           | 5,492.67   | 6,435.27             | 6,381.14              | 54.13                   | 118.893           |                    |         |
| 1,800.00                                     | 1,800.00            | 8,329.00            | 4,956.38            | 6.25            | 54.40       | 95.69                 | -546.99                           | 5,492.67   | 6,384.43             | 6,329.71              | 54.72                   | 116.670           |                    |         |
| 1,900.00                                     | 1,900.00            | 8,329.00            | 4,956.38            | 6.61            | 54.40       | 95.69                 | -546.99                           | 5,492.67   | 6,334.77             | 6,279.45              | 55.32                   | 114.507           |                    |         |
| 2,000.00                                     | 2,000.00            | 8,329.00            | 4,956.38            | 6.96            | 54.40       | 95.69                 | -546.99                           | 5,492.67   | 6,286.31             | 6,230.39              | 55.93                   | 112.404           |                    |         |
| 2,100.00                                     | 2,099.99            | 8,329.00            | 4,956.38            | 7.32            | 54.40       | 108.97                | -546.99                           | 5,492.67   | 6,239.33             | 6,182.79              | 56.53                   | 110.368           |                    |         |
| 2,200.00                                     | 2,199.96            | 8,329.00            | 4,956.38            | 7.68            | 54.40       | 109.45                | -546.99                           | 5,492.67   | 6,194.10             | 6,136.96              | 57.14                   | 108.402           |                    |         |
| 2,300.00                                     | 2,299.86            | 8,329.00            | 4,956.38            | 8.04            | 54.40       | 109.90                | -546.99                           | 5,492.67   | 6,150.70             | 6,092.95              | 57.75                   | 106.503           |                    |         |
| 2,400.00                                     | 2,399.68            | 8,298.61            | 4,955.96            | 8.39            | 53.98       | 110.02                | -516.75                           | 5,495.60   | 6,108.92             | 6,050.94              | 57.98                   | 105.363           |                    |         |
| 2,500.00                                     | 2,499.37            | 8,296.69            | 4,955.94            | 8.75            | 53.96       | 110.41                | -514.84                           | 5,495.80   | 6,069.28             | 6,010.71              | 58.57                   | 103.630           |                    |         |
| 2,600.00                                     | 2,598.90            | 8,294.25            | 4,955.90            | 9.11            | 53.92       | 110.76                | -512.41                           | 5,496.05   | 6,031.59             | 5,972.44              | 59.15                   | 101.976           |                    |         |
| 2,700.00                                     | 2,698.26            | 8,291.29            | 4,955.87            | 9.46            | 53.88       | 111.09                | -509.47                           | 5,496.36   | 5,995.91             | 5,936.19              | 59.72                   | 100.401           |                    |         |
| 2,800.00                                     | 2,797.40            | 8,287.82            | 4,955.82            | 9.82            | 53.84       | 111.39                | -506.02                           | 5,496.72   | 5,962.28             | 5,902.00              | 60.28                   | 98.904            |                    |         |
| 2,900.00                                     | 2,896.30            | 8,283.83            | 4,955.77            | 10.18           | 53.78       | 111.66                | -502.05                           | 5,497.15   | 5,930.75             | 5,869.91              | 60.84                   | 97.485            |                    |         |
| 3,000.00                                     | 2,994.93            | 8,279.32            | 4,955.71            | 10.54           | 53.72       | 111.90                | -497.57                           | 5,497.64   | 5,901.35             | 5,839.96              | 61.38                   | 96.143            |                    |         |
| 3,100.00                                     | 3,093.26            | 8,274.31            | 4,955.64            | 10.90           | 53.65       | 112.11                | -492.59                           | 5,498.20   | 5,874.11             | 5,812.20              | 61.91                   | 94.876            |                    |         |
| 3,195.07                                     | 3,186.42            | 8,269.07            | 4,955.57            | 11.24           | 53.58       | 112.29                | -487.38                           | 5,498.79   | 5,850.27             | 5,787.86              | 62.41                   | 93.741            |                    |         |
| 3,200.00                                     | 3,191.25            | 8,268.78            | 4,955.57            | 11.26           | 53.58       | 112.28                | -487.10                           | 5,498.82   | 5,849.09             | 5,786.65              | 62.43                   | 93.684            |                    |         |
| 3,300.00                                     | 3,289.08            | 8,234.00            | 4,955.14            | 11.62           | 53.10       | 111.94                | -452.57                           | 5,503.01   | 5,826.17             | 5,763.60              | 62.57                   | 93.117            |                    |         |
| 3,400.00                                     | 3,386.91            | 8,234.00            | 4,955.14            | 11.98           | 53.10       | 111.94                | -452.57                           | 5,503.01   | 5,804.56             | 5,741.41              | 63.15                   | 91.919            |                    |         |
| 3,500.00                                     | 3,484.74            | 8,234.00            | 4,955.14            | 12.35           | 53.10       | 111.94                | -452.57                           | 5,503.01   | 5,784.59             | 5,720.87              | 63.72                   | 90.779            |                    |         |
| 3,600.00                                     | 3,582.58            | 8,234.00            | 4,955.14            | 12.72           | 53.10       | 111.94                | -452.57                           | 5,503.01   | 5,766.29             | 5,702.00              | 64.29                   | 89.697            |                    |         |
| 3,700.00                                     | 3,680.41            | 8,234.00            | 4,955.14            | 13.09           | 53.10       | 111.94                | -452.57                           | 5,503.01   | 5,749.67             | 5,684.83              | 64.84                   | 88.672            |                    |         |
| 3,800.00                                     | 3,778.24            | 8,234.00            | 4,955.14            | 13.46           | 53.10       | 111.94                | -452.57                           | 5,503.01   | 5,734.75             | 5,669.36              | 65.39                   | 87.703            |                    |         |
| 3,900.00                                     | 3,876.08            | 8,220.87            | 4,954.96            | 13.83           | 52.92       | 111.81                | -439.55                           | 5,504.68   | 5,721.51             | 5,655.76              | 65.75                   | 87.017            |                    |         |
| 4,000.00                                     | 3,973.91            | 8,207.32            | 4,954.74            | 14.21           | 52.74       | 111.67                | -426.12                           | 5,506.43   | 5,709.95             | 5,643.86              | 66.10                   | 86.387            |                    |         |
| 4,100.00                                     | 4,071.74            | 8,194.16            | 4,954.50            | 14.58           | 52.56       | 111.54                | -413.07                           | 5,508.14   | 5,700.09             | 5,633.65              | 66.44                   | 85.797            |                    |         |
| 4,200.00                                     | 4,169.57            | 8,181.36            | 4,954.23            | 14.96           | 52.39       | 111.41                | -400.39                           | 5,509.82   | 5,691.92             | 5,625.15              | 66.77                   | 85.250            |                    |         |
| 4,300.00                                     | 4,267.41            | 8,168.91            | 4,953.95            | 15.33           | 52.22       | 111.29                | -388.05                           | 5,511.47   | 5,685.46             | 5,618.37              | 67.09                   | 84.745            |                    |         |
| 4,400.00                                     | 4,365.24            | 8,156.80            | 4,953.64            | 15.71           | 52.06       | 111.17                | -376.05                           | 5,513.09   | 5,680.72             | 5,613.32              | 67.40                   | 84.282            |                    |         |
| 4,500.00                                     | 4,463.07            | 8,140.00            | 4,953.17            | 16.09           | 51.83       | 111.00                | -359.41                           | 5,515.36   | 5,677.70             | 5,610.07              | 67.64                   | 83.942            |                    |         |
| 4,600.00                                     | 4,560.90            | 8,132.36            | 4,952.94            | 16.47           | 51.73       | 110.93                | -351.85                           | 5,516.39   | 5,676.41             | 5,608.43              | 67.98                   | 83.500            |                    |         |
| 4,625.09                                     | 4,585.45            | 8,128.98            | 4,952.84            | 16.56           | 51.68       | 110.89                | -348.50                           | 5,516.85   | 5,676.35             | 5,608.31              | 68.05                   | 83.420            |                    |         |
| 4,700.00                                     | 4,658.74            | 8,118.85            | 4,952.55            | 16.85           | 51.54       | 110.79                | -338.46                           | 5,518.23   | 5,676.84             | 5,608.61              | 68.23                   | 83.200            |                    |         |
| 4,800.00                                     | 4,756.57            | 8,105.26            | 4,952.16            | 17.23           | 51.36       | 110.66                | -325.01                           | 5,520.09   | 5,678.99             | 5,610.52              | 68.46                   | 82.948            |                    |         |
| 4,900.00                                     | 4,854.40            | 8,091.59            | 4,951.77            | 17.61           | 51.17       | 110.52                | -311.48                           | 5,521.96   | 5,682.86             | 5,614.17              | 68.68                   | 82.741            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 80-GYRO-NS-CT, 4361-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,000.00                                     | 4,952.23            | 8,077.85            | 4,951.39            | 17.99           | 50.99       | 110.38                | -297.87                           | 5,523.86   | 5,688.44             | 5,619.56              | 68.88                   | 82.582            |                    |         |
| 5,100.00                                     | 5,050.07            | 8,064.04            | 4,951.02            | 18.37           | 50.80       | 110.25                | -284.19                           | 5,525.77   | 5,695.74             | 5,626.67              | 69.07                   | 82.468            |                    |         |
| 5,200.00                                     | 5,147.90            | 8,061.55            | 4,950.94            | 18.75           | 50.77       | 110.22                | -281.73                           | 5,526.09   | 5,704.73             | 5,635.35              | 69.38                   | 82.222            |                    |         |
| 5,300.00                                     | 5,245.73            | 8,016.76            | 4,949.77            | 19.14           | 50.16       | 109.78                | -237.38                           | 5,532.29   | 5,715.41             | 5,646.28              | 69.13                   | 82.677            |                    |         |
| 5,400.00                                     | 5,343.56            | 7,972.21            | 4,948.56            | 19.52           | 49.56       | 109.33                | -193.25                           | 5,538.25   | 5,727.69             | 5,658.83              | 68.86                   | 83.175            |                    |         |
| 5,500.00                                     | 5,441.40            | 7,940.49            | 4,947.68            | 19.90           | 49.14       | 109.02                | -161.82                           | 5,542.35   | 5,741.56             | 5,672.81              | 68.75                   | 83.513            |                    |         |
| 5,600.00                                     | 5,539.23            | 7,921.34            | 4,947.16            | 20.29           | 48.88       | 108.83                | -142.83                           | 5,544.81   | 5,757.07             | 5,688.29              | 68.79                   | 83.693            |                    |         |
| 5,700.00                                     | 5,637.06            | 7,902.02            | 4,946.65            | 20.67           | 48.62       | 108.64                | -123.67                           | 5,547.29   | 5,774.22             | 5,705.41              | 68.81                   | 83.918            |                    |         |
| 5,800.00                                     | 5,734.90            | 7,882.53            | 4,946.14            | 21.05           | 48.36       | 108.44                | -104.35                           | 5,549.78   | 5,792.99             | 5,724.17              | 68.81                   | 84.186            |                    |         |
| 5,900.00                                     | 5,832.73            | 7,863.00            | 4,945.76            | 21.44           | 48.10       | 108.24                | -85.19                            | 5,552.31   | 5,813.29             | 5,745.40              | 68.81                   | 84.454            |                    |         |
| 6,000.00                                     | 5,930.56            | 7,843.47            | 4,945.38            | 21.83           | 47.84       | 108.04                | -66.03                            | 5,554.84   | 5,835.28             | 5,766.84              | 68.81                   | 84.722            |                    |         |
| 6,100.00                                     | 6,028.39            | 7,823.94            | 4,945.00            | 22.21           | 47.58       | 107.84                | -46.87                            | 5,557.37   | 5,857.27             | 5,788.83              | 68.81                   | 85.000            |                    |         |
| 6,200.00                                     | 6,126.23            | 7,804.41            | 4,944.62            | 22.60           | 47.32       | 107.64                | -27.71                            | 5,560.00   | 5,879.26             | 5,810.82              | 68.81                   | 85.278            |                    |         |
| 6,300.00                                     | 6,224.06            | 7,784.88            | 4,944.24            | 22.98           | 47.06       | 107.44                | -8.55                             | 5,562.63   | 5,901.25             | 5,832.81              | 68.81                   | 85.556            |                    |         |
| 6,400.00                                     | 6,321.89            | 7,765.35            | 4,943.86            | 23.37           | 46.80       | 107.24                | 10.61                             | 5,565.26   | 5,923.24             | 5,854.80              | 68.81                   | 85.834            |                    |         |
| 6,500.00                                     | 6,419.72            | 7,745.82            | 4,943.48            | 23.76           | 46.54       | 107.04                | 31.45                             | 5,567.89   | 5,945.23             | 5,876.79              | 68.81                   | 86.112            |                    |         |
| 6,600.00                                     | 6,517.56            | 7,726.29            | 4,943.10            | 24.14           | 46.28       | 106.84                | 52.29                             | 5,570.52   | 5,967.22             | 5,898.78              | 68.81                   | 86.390            |                    |         |
| 6,700.00                                     | 6,615.39            | 7,706.76            | 4,942.72            | 24.53           | 46.02       | 106.64                | 73.13                             | 5,573.15   | 5,989.21             | 5,920.77              | 68.81                   | 86.668            |                    |         |
| 6,800.00                                     | 6,713.22            | 7,687.23            | 4,942.34            | 24.92           | 45.76       | 106.44                | 93.97                             | 5,575.78   | 6,011.20             | 5,942.76              | 68.81                   | 86.946            |                    |         |
| 6,900.00                                     | 6,811.05            | 7,667.70            | 4,941.96            | 25.30           | 45.50       | 106.24                | 114.81                            | 5,578.41   | 6,033.19             | 5,964.75              | 68.81                   | 87.224            |                    |         |
| 7,000.00                                     | 6,908.89            | 7,648.17            | 4,941.58            | 25.69           | 45.24       | 106.04                | 135.65                            | 5,581.04   | 6,055.18             | 5,986.74              | 68.81                   | 87.502            |                    |         |
| 7,100.00                                     | 7,006.72            | 7,628.64            | 4,941.20            | 26.08           | 44.98       | 105.84                | 156.49                            | 5,583.67   | 6,077.17             | 6,008.73              | 68.81                   | 87.780            |                    |         |
| 7,200.00                                     | 7,104.55            | 7,609.11            | 4,940.82            | 26.47           | 44.72       | 105.64                | 177.33                            | 5,586.30   | 6,099.16             | 6,030.72              | 68.81                   | 88.058            |                    |         |
| 7,216.87                                     | 7,121.05            | 7,522.22            | 4,937.97            | 26.53           | 43.54       | 104.87                | 253.51                            | 5,590.85   | 6,218.83             | 6,152.34              | 66.49                   | 93.526            |                    |         |
| 7,300.00                                     | 7,202.57            | 7,513.81            | 4,937.92            | 26.85           | 43.43       | 105.32                | 261.86                            | 5,591.81   | 6,252.33             | 6,185.87              | 66.46                   | 94.080            |                    |         |
| 7,400.00                                     | 7,301.06            | 7,504.73            | 4,937.88            | 27.23           | 43.31       | 105.88                | 270.88                            | 5,592.87   | 6,293.25             | 6,226.83              | 66.42                   | 94.755            |                    |         |
| 7,500.00                                     | 7,399.97            | 7,496.83            | 4,937.86            | 27.61           | 43.21       | 106.46                | 278.72                            | 5,593.80   | 6,334.81             | 6,268.43              | 66.38                   | 95.439            |                    |         |
| 7,600.00                                     | 7,499.23            | 7,477.00            | 4,937.88            | 27.98           | 42.95       | 106.93                | 298.41                            | 5,596.21   | 6,377.01             | 6,310.83              | 66.18                   | 96.362            |                    |         |
| 7,700.00                                     | 7,598.77            | 7,457.46            | 4,938.62            | 28.34           | 45.88       | 107.23                | 336.32                            | 5,600.87   | 6,419.64             | 6,350.65              | 68.99                   | 93.047            |                    |         |
| 7,800.00                                     | 7,698.53            | 7,437.93            | 4,938.78            | 28.70           | 47.20       | 107.84                | 344.66                            | 5,601.89   | 6,462.88             | 6,392.64              | 70.24                   | 92.009            |                    |         |
| 7,900.00                                     | 7,798.44            | 7,418.40            | 4,938.89            | 29.05           | 48.52       | 108.47                | 350.56                            | 5,602.61   | 6,506.65             | 6,435.18              | 71.47                   | 91.044            |                    |         |
| 8,000.00                                     | 7,898.42            | 7,398.87            | 4,940.36            | 29.39           | 41.45       | 108.57                | 411.59                            | 5,610.06   | 6,550.99             | 6,486.11              | 64.88                   | 100.965           |                    |         |
| 8,013.58                                     | 7,912.00            | 7,362.40            | 4,940.38            | 29.43           | 41.44       | 95.88                 | 412.12                            | 5,610.13   | 6,557.04             | 6,492.16              | 64.88                   | 101.069           |                    |         |
| 8,100.00                                     | 7,998.42            | 7,359.18            | 4,940.48            | 29.73           | 41.40       | 95.85                 | 415.32                            | 5,610.51   | 6,595.97             | 6,531.14              | 64.83                   | 101.737           |                    |         |
| 8,200.00                                     | 8,098.42            | 7,355.51            | 4,940.60            | 30.07           | 41.35       | 95.82                 | 418.96                            | 5,610.95   | 6,642.14             | 6,577.36              | 64.78                   | 102.534           |                    |         |
| 8,300.00                                     | 8,198.42            | 7,351.90            | 4,940.72            | 30.41           | 41.30       | 95.78                 | 422.55                            | 5,611.38   | 6,689.49             | 6,624.77              | 64.72                   | 103.354           |                    |         |
| 8,363.62                                     | 8,262.04            | 7,349.63            | 4,940.80            | 30.62           | 41.27       | 95.76                 | 424.80                            | 5,611.64   | 6,720.21             | 6,655.52              | 64.69                   | 103.888           |                    |         |
| 8,400.00                                     | 8,298.40            | 7,348.19            | 4,940.84            | 30.75           | 41.25       | 95.89                 | 426.23                            | 5,611.81   | 6,736.97             | 6,672.31              | 64.66                   | 104.195           |                    |         |
| 8,450.00                                     | 8,348.10            | 7,345.73            | 4,940.92            | 30.91           | 41.22       | 95.65                 | 428.67                            | 5,612.11   | 6,756.88             | 6,692.28              | 64.60                   | 104.596           |                    |         |
| 8,500.00                                     | 8,397.14            | 7,342.73            | 4,941.02            | 31.07           | 41.18       | 95.46                 | 431.64                            | 5,612.46   | 6,773.07             | 6,708.54              | 64.53                   | 104.963           |                    |         |
| 8,550.00                                     | 8,445.15            | 7,339.24            | 4,941.13            | 31.23           | 41.14       | 95.31                 | 435.11                            | 5,612.87   | 6,785.43             | 6,720.99              | 64.44                   | 105.295           |                    |         |
| 8,600.00                                     | 8,491.77            | 7,335.28            | 4,941.26            | 31.38           | 41.08       | 95.19                 | 439.04                            | 5,613.34   | 6,793.89             | 6,729.55              | 64.34                   | 105.590           |                    |         |
| 8,650.00                                     | 8,536.65            | 7,330.89            | 4,941.39            | 31.52           | 41.03       | 95.12                 | 443.40                            | 5,613.85   | 6,798.41             | 6,734.18              | 64.23                   | 105.847           |                    |         |
| 8,700.00                                     | 8,579.43            | 7,326.11            | 4,941.54            | 31.66           | 40.96       | 95.07                 | 448.14                            | 5,614.41   | 6,798.96             | 6,734.85              | 64.10                   | 106.067           |                    |         |
| 8,750.00                                     | 8,619.80            | 7,320.99            | 4,941.70            | 31.80           | 40.90       | 95.06                 | 453.23                            | 5,615.01   | 6,795.52             | 6,731.56              | 63.96                   | 106.247           |                    |         |
| 8,800.00                                     | 8,657.44            | 7,315.56            | 4,941.86            | 31.93           | 40.83       | 95.08                 | 458.61                            | 5,615.64   | 6,788.13             | 6,724.32              | 63.81                   | 106.386           |                    |         |
| 8,850.00                                     | 8,692.08            | 7,309.88            | 4,942.03            | 32.06           | 40.75       | 95.13                 | 464.25                            | 5,616.30   | 6,776.81             | 6,713.17              | 63.64                   | 106.482           |                    |         |
| 8,900.00                                     | 8,723.44            | 7,303.99            | 4,942.21            | 32.19           | 40.67       | 95.22                 | 470.10                            | 5,616.99   | 6,761.65             | 6,698.18              | 63.47                   | 106.534           |                    |         |
| 8,950.00                                     | 8,751.29            | 7,299.27            | 4,942.35            | 32.34           | 40.61       | 95.37                 | 474.79                            | 5,617.53   | 6,742.73             | 6,679.43              | 63.30                   | 106.517           |                    |         |
| 9,000.00                                     | 8,775.42            | 7,292.34            | 4,942.54            | 32.50           | 40.52       | 95.55                 | 481.67                            | 5,618.33   | 6,720.16             | 6,657.05              | 63.11                   | 106.489           |                    |         |
| 9,050.00                                     | 8,795.64            | 7,285.30            | 4,942.74            | 32.67           | 40.43       | 95.78                 | 488.66                            | 5,619.14   | 6,694.08             | 6,631.17              | 62.91                   | 106.414           |                    |         |
| 9,100.00                                     | 8,811.80            | 7,278.20            | 4,942.94            | 32.87           | 40.34       | 96.08                 | 495.71                            | 5,619.96   | 6,664.64             | 6,601.94              | 62.70                   | 106.289           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 80-GYRO-NS-CT, 4361-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,150.00                                     | 8,823.77            | 7,271.10            | 4,943.13            | 33.10           | 40.24       | 6.47                  | 502.76                            | 5,620.77   | 6,632.03             | 6,569.53              | 62.50                   | 106.113           |                    |         |
| 9,200.00                                     | 8,831.47            | 7,264.05            | 4,943.33            | 33.34           | 40.15       | 6.98                  | 509.76                            | 5,621.57   | 6,596.44             | 6,534.14              | 62.30                   | 105.885           |                    |         |
| 9,250.00                                     | 8,834.84            | 7,257.10            | 4,943.52            | 33.60           | 40.06       | 7.65                  | 516.67                            | 5,622.37   | 6,558.11             | 6,496.01              | 62.10                   | 105.604           |                    |         |
| 9,263.62                                     | 8,835.00            | 7,255.23            | 4,943.57            | 33.67           | 40.04       | 7.86                  | 518.52                            | 5,622.58   | 6,547.22             | 6,485.17              | 62.05                   | 105.513           |                    |         |
| 9,300.00                                     | 8,835.00            | 7,250.26            | 4,943.70            | 33.88           | 39.97       | 7.79                  | 523.46                            | 5,623.14   | 6,517.94             | 6,456.03              | 61.91                   | 105.288           |                    |         |
| 9,400.00                                     | 8,835.00            | 7,236.68            | 4,944.07            | 34.53           | 39.80       | 7.60                  | 536.95                            | 5,624.68   | 6,437.79             | 6,376.29              | 61.51                   | 104.666           |                    |         |
| 9,500.00                                     | 8,835.00            | 7,223.21            | 4,944.43            | 35.30           | 39.62       | 7.40                  | 550.33                            | 5,626.20   | 6,358.19             | 6,297.07              | 61.11                   | 104.037           |                    |         |
| 9,600.00                                     | 8,835.00            | 7,209.85            | 4,944.79            | 36.17           | 39.45       | 7.21                  | 563.59                            | 5,627.70   | 6,279.14             | 6,218.41              | 60.73                   | 103.399           |                    |         |
| 9,700.00                                     | 8,835.00            | 7,197.15            | 4,945.12            | 37.13           | 39.28       | 7.02                  | 576.21                            | 5,629.12   | 6,200.67             | 6,140.32              | 60.35                   | 102.743           |                    |         |
| 9,800.00                                     | 8,835.00            | 7,182.27            | 4,945.50            | 38.18           | 39.09       | 6.80                  | 590.99                            | 5,630.77   | 6,122.81             | 6,062.85              | 59.96                   | 102.117           |                    |         |
| 9,900.00                                     | 8,835.00            | 7,168.18            | 4,945.81            | 39.31           | 38.90       | 6.60                  | 604.99                            | 5,632.28   | 6,045.56             | 5,985.98              | 59.58                   | 101.468           |                    |         |
| 10,000.00                                    | 8,835.00            | 7,154.83            | 4,946.07            | 40.51           | 38.73       | 6.40                  | 618.27                            | 5,633.68   | 5,968.97             | 5,909.75              | 59.22                   | 100.798           |                    |         |
| 10,100.00                                    | 8,835.00            | 7,142.16            | 4,946.28            | 41.78           | 38.57       | 6.22                  | 630.88                            | 5,634.97   | 5,893.05             | 5,834.19              | 58.87                   | 100.106           |                    |         |
| 10,200.00                                    | 8,835.00            | 7,130.12            | 4,946.44            | 43.10           | 38.41       | 6.04                  | 642.86                            | 5,636.16   | 5,817.84             | 5,759.31              | 58.53                   | 99.393            |                    |         |
| 10,300.00                                    | 8,835.00            | 7,118.65            | 4,946.57            | 44.49           | 38.26       | 5.87                  | 654.27                            | 5,637.26   | 5,743.37             | 5,685.15              | 58.21                   | 98.659            |                    |         |
| 10,400.00                                    | 8,835.00            | 7,107.96            | 4,946.67            | 45.92           | 38.12       | 5.72                  | 664.91                            | 5,638.28   | 5,669.66             | 5,611.75              | 57.91                   | 97.900            |                    |         |
| 10,500.00                                    | 8,835.00            | 7,097.30            | 4,946.73            | 47.39           | 37.98       | 5.56                  | 675.53                            | 5,639.25   | 5,596.75             | 5,539.12              | 57.62                   | 97.127            |                    |         |
| 10,600.00                                    | 8,835.00            | 7,086.80            | 4,946.78            | 48.91           | 37.85       | 5.41                  | 685.99                            | 5,640.19   | 5,524.66             | 5,467.32              | 57.35                   | 96.337            |                    |         |
| 10,700.00                                    | 8,835.00            | 7,076.47            | 4,946.83            | 50.47           | 37.72       | 5.25                  | 696.28                            | 5,641.12   | 5,453.45             | 5,396.36              | 57.09                   | 95.531            |                    |         |
| 10,800.00                                    | 8,835.00            | 7,066.29            | 4,946.86            | 52.06           | 37.58       | 5.10                  | 706.41                            | 5,642.02   | 5,383.12             | 5,326.28              | 56.84                   | 94.707            |                    |         |
| 10,900.00                                    | 8,835.00            | 7,056.28            | 4,946.90            | 53.68           | 37.45       | 4.96                  | 716.38                            | 5,642.90   | 5,313.73             | 5,257.12              | 56.61                   | 93.865            |                    |         |
| 11,000.00                                    | 8,835.00            | 7,046.42            | 4,946.92            | 55.32           | 37.33       | 4.81                  | 726.20                            | 5,643.76   | 5,245.32             | 5,188.92              | 56.40                   | 93.004            |                    |         |
| 11,100.00                                    | 8,835.00            | 7,036.72            | 4,946.94            | 57.00           | 37.20       | 4.67                  | 735.88                            | 5,644.60   | 5,177.91             | 5,121.70              | 56.21                   | 92.124            |                    |         |
| 11,200.00                                    | 8,835.00            | 7,027.16            | 4,946.96            | 58.70           | 37.08       | 4.53                  | 745.40                            | 5,645.42   | 5,111.55             | 5,055.52              | 56.03                   | 91.225            |                    |         |
| 11,300.00                                    | 8,835.00            | 7,017.74            | 4,946.97            | 60.41           | 36.96       | 4.39                  | 754.78                            | 5,646.22   | 5,046.28             | 4,990.40              | 55.88                   | 90.306            |                    |         |
| 11,400.00                                    | 8,835.00            | 7,008.46            | 4,946.97            | 62.15           | 36.84       | 4.25                  | 764.02                            | 5,647.00   | 4,982.15             | 4,926.40              | 55.75                   | 89.368            |                    |         |
| 11,500.00                                    | 8,835.00            | 6,999.63            | 4,946.97            | 63.91           | 36.72       | 4.12                  | 772.83                            | 5,647.74   | 4,919.20             | 4,863.56              | 55.64                   | 88.405            |                    |         |
| 11,600.00                                    | 8,835.00            | 6,991.17            | 4,946.98            | 65.69           | 36.62       | 3.99                  | 781.26                            | 5,648.46   | 4,857.48             | 4,801.91              | 55.56                   | 87.420            |                    |         |
| 11,700.00                                    | 8,835.00            | 6,982.56            | 4,946.99            | 67.47           | 36.51       | 3.87                  | 789.84                            | 5,649.19   | 4,797.03             | 4,741.52              | 55.51                   | 86.421            |                    |         |
| 11,800.00                                    | 8,835.00            | 6,973.80            | 4,947.00            | 69.28           | 36.39       | 3.74                  | 798.57                            | 5,649.95   | 4,737.90             | 4,682.43              | 55.47                   | 85.408            |                    |         |
| 11,900.00                                    | 8,835.00            | 6,964.88            | 4,947.01            | 71.09           | 36.28       | 3.60                  | 807.45                            | 5,650.72   | 4,680.15             | 4,624.69              | 55.46                   | 84.384            |                    |         |
| 12,000.00                                    | 8,835.00            | 6,955.80            | 4,947.04            | 72.92           | 36.16       | 3.47                  | 816.49                            | 5,651.51   | 4,623.82             | 4,568.34              | 55.48                   | 83.348            |                    |         |
| 12,100.00                                    | 8,835.00            | 6,946.56            | 4,947.06            | 74.76           | 36.04       | 3.33                  | 825.70                            | 5,652.33   | 4,568.97             | 4,513.45              | 55.51                   | 82.302            |                    |         |
| 12,200.00                                    | 8,835.00            | 6,937.14            | 4,947.09            | 76.61           | 35.92       | 3.19                  | 835.08                            | 5,653.17   | 4,515.64             | 4,460.06              | 55.58                   | 81.247            |                    |         |
| 12,300.00                                    | 8,835.00            | 6,927.56            | 4,947.13            | 78.47           | 35.80       | 3.05                  | 844.62                            | 5,654.04   | 4,463.90             | 4,408.23              | 55.67                   | 80.186            |                    |         |
| 12,400.00                                    | 8,835.00            | 6,917.79            | 4,947.18            | 80.34           | 35.68       | 2.91                  | 854.35                            | 5,654.93   | 4,413.79             | 4,358.01              | 55.79                   | 79.120            |                    |         |
| 12,500.00                                    | 8,835.00            | 6,909.00            | 4,947.22            | 82.22           | 35.56       | 2.78                  | 863.10                            | 5,655.74   | 4,365.38             | 4,309.44              | 55.94                   | 78.036            |                    |         |
| 12,600.00                                    | 8,835.00            | 6,900.18            | 4,947.26            | 84.11           | 35.45       | 2.64                  | 871.89                            | 5,656.55   | 4,318.73             | 4,262.60              | 56.12                   | 76.950            |                    |         |
| 12,700.00                                    | 8,835.00            | 6,892.34            | 4,947.29            | 86.00           | 35.35       | 2.53                  | 879.69                            | 5,657.27   | 4,273.88             | 4,217.54              | 56.34                   | 75.852            |                    |         |
| 12,800.00                                    | 8,835.00            | 6,884.58            | 4,947.32            | 87.90           | 35.25       | 2.41                  | 887.42                            | 5,657.98   | 4,230.91             | 4,174.31              | 56.60                   | 74.757            |                    |         |
| 12,900.00                                    | 8,835.00            | 6,876.88            | 4,947.34            | 89.81           | 35.15       | 2.30                  | 895.09                            | 5,658.67   | 4,189.86             | 4,132.99              | 56.88                   | 73.667            |                    |         |
| 13,000.00                                    | 8,835.00            | 6,869.25            | 4,947.36            | 91.72           | 35.06       | 2.19                  | 902.69                            | 5,659.36   | 4,150.81             | 4,093.62              | 57.19                   | 72.584            |                    |         |
| 13,100.00                                    | 8,835.00            | 6,861.68            | 4,947.36            | 93.64           | 34.96       | 2.07                  | 910.23                            | 5,660.05   | 4,113.79             | 4,056.26              | 57.53                   | 71.511            |                    |         |
| 13,200.00                                    | 8,835.00            | 6,854.18            | 4,947.37            | 95.56           | 34.87       | 1.96                  | 917.70                            | 5,660.72   | 4,078.87             | 4,020.97              | 57.90                   | 70.451            |                    |         |
| 13,300.00                                    | 8,835.00            | 6,846.74            | 4,947.37            | 97.49           | 34.77       | 1.85                  | 925.10                            | 5,661.38   | 4,046.11             | 3,987.81              | 58.30                   | 69.405            |                    |         |
| 13,400.00                                    | 8,835.00            | 6,839.37            | 4,947.36            | 99.42           | 34.68       | 1.74                  | 932.45                            | 5,662.03   | 4,015.55             | 3,956.82              | 58.73                   | 68.376            |                    |         |
| 13,500.00                                    | 8,835.00            | 6,832.06            | 4,947.35            | 101.36          | 34.59       | 1.63                  | 939.73                            | 5,662.68   | 3,987.25             | 3,928.06              | 59.19                   | 67.366            |                    |         |
| 13,600.00                                    | 8,835.00            | 6,824.81            | 4,947.34            | 103.30          | 34.49       | 1.53                  | 946.95                            | 5,663.32   | 3,961.25             | 3,901.57              | 59.68                   | 66.378            |                    |         |
| 13,700.00                                    | 8,835.00            | 6,821.00            | 4,947.33            | 105.25          | 34.44       | 1.47                  | 950.75                            | 5,663.65   | 3,937.61             | 3,877.38              | 60.22                   | 65.386            |                    |         |
| 13,800.00                                    | 8,835.00            | 6,807.32            | 4,947.28            | 107.20          | 34.27       | 1.27                  | 964.37                            | 5,664.84   | 3,916.36             | 3,855.63              | 60.73                   | 64.492            |                    |         |
| 13,900.00                                    | 8,835.00            | 6,794.14            | 4,947.24            | 109.15          | 34.11       | 1.07                  | 977.51                            | 5,665.97   | 3,897.52             | 3,836.26              | 61.27                   | 63.616            |                    |         |
| 14,000.00                                    | 8,835.00            | 6,781.43            | 4,947.22            | 111.10          | 33.95       | 0.88                  | 990.17                            | 5,667.03   | 3,881.15             | 3,819.31              | 61.84                   | 62.760            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|----------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 80-GYRO-NS-CT, 4361-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 14,100.00                                    | 8,835.00            | 6,769.18            | 4,947.20            | 113.06          | 33.79       | 0.70                  | 1,002.38                          | 5,668.04   | 3,867.26             | 3,804.81              | 62.45                   | 61.927            |                    |         |
| 14,200.00                                    | 8,835.00            | 6,757.35            | 4,947.19            | 115.03          | 33.64       | 0.52                  | 1,014.17                          | 5,669.00   | 3,855.89             | 3,792.81              | 63.09                   | 61.120            |                    |         |
| 14,300.00                                    | 8,835.00            | 6,745.92            | 4,947.19            | 116.99          | 33.50       | 0.35                  | 1,025.57                          | 5,669.90   | 3,847.06             | 3,783.31              | 63.76                   | 60.340            |                    |         |
| 14,400.00                                    | 8,835.00            | 6,734.87            | 4,947.20            | 118.96          | 33.36       | 0.19                  | 1,036.58                          | 5,670.76   | 3,840.80             | 3,776.34              | 64.45                   | 59.589            |                    |         |
| 14,500.00                                    | 8,835.00            | 6,724.19            | 4,947.21            | 120.93          | 33.23       | 0.03                  | 1,047.23                          | 5,671.57   | 3,837.10             | 3,771.92              | 65.18                   | 58.871            |                    |         |
| 14,592.75                                    | 8,835.00            | 6,719.00            | 4,947.22            | 122.76          | 33.16       | -0.05                 | 1,052.41                          | 5,671.97   | 3,835.98             | 3,770.09              | 65.89                   | 58.215 CC         |                    |         |
| 14,600.00                                    | 8,835.00            | 6,719.00            | 4,947.22            | 122.90          | 33.16       | -0.05                 | 1,052.41                          | 5,671.97   | 3,835.99             | 3,770.04              | 65.95                   | 58.164 ES         |                    |         |
| 14,700.00                                    | 8,835.00            | 6,719.00            | 4,947.22            | 124.88          | 33.16       | -0.05                 | 1,052.41                          | 5,671.97   | 3,837.48             | 3,770.71              | 66.77                   | 57.475            |                    |         |
| 14,800.00                                    | 8,835.00            | 6,706.31            | 4,947.23            | 126.86          | 33.00       | -0.24                 | 1,065.07                          | 5,672.88   | 3,841.54             | 3,774.00              | 67.54                   | 56.878            |                    |         |
| 14,900.00                                    | 8,835.00            | 6,701.73            | 4,947.23            | 128.84          | 32.95       | -0.31                 | 1,069.63                          | 5,673.19   | 3,848.20             | 3,779.84              | 68.36                   | 56.291            |                    |         |
| 15,000.00                                    | 8,835.00            | 6,697.41            | 4,947.23            | 130.82          | 32.89       | -0.37                 | 1,073.94                          | 5,673.48   | 3,857.44             | 3,788.24              | 69.20                   | 55.746            |                    |         |
| 15,100.00                                    | 8,835.00            | 6,693.32            | 4,947.22            | 132.80          | 32.84       | -0.43                 | 1,078.02                          | 5,673.74   | 3,869.23             | 3,799.19              | 70.04                   | 55.245            |                    |         |
| 15,200.00                                    | 8,835.00            | 6,689.44            | 4,947.21            | 134.79          | 32.79       | -0.49                 | 1,081.90                          | 5,673.98   | 3,883.55             | 3,812.67              | 70.88                   | 54.789            |                    |         |
| 15,300.00                                    | 8,835.00            | 6,685.76            | 4,947.21            | 136.78          | 32.75       | -0.54                 | 1,085.57                          | 5,674.20   | 3,900.38             | 3,828.65              | 71.73                   | 54.379            |                    |         |
| 15,400.00                                    | 8,835.00            | 6,682.26            | 4,947.20            | 138.76          | 32.70       | -0.60                 | 1,089.06                          | 5,674.41   | 3,919.68             | 3,847.11              | 72.57                   | 54.015            |                    |         |
| 15,500.00                                    | 8,835.00            | 6,678.93            | 4,947.19            | 140.76          | 32.66       | -0.65                 | 1,092.39                          | 5,674.60   | 3,941.42             | 3,868.02              | 73.40                   | 53.697            |                    |         |
| 15,600.00                                    | 8,835.00            | 6,675.76            | 4,947.17            | 142.75          | 32.62       | -0.69                 | 1,095.56                          | 5,674.77   | 3,965.55             | 3,891.33              | 74.22                   | 53.426            |                    |         |
| 15,700.00                                    | 8,835.00            | 6,672.73            | 4,947.16            | 144.74          | 32.58       | -0.74                 | 1,098.58                          | 5,674.94   | 3,992.05             | 3,917.01              | 75.04                   | 53.202            |                    |         |
| 15,800.00                                    | 8,835.00            | 6,669.84            | 4,947.15            | 146.74          | 32.55       | -0.78                 | 1,101.47                          | 5,675.09   | 4,020.85             | 3,945.02              | 75.83                   | 53.024            |                    |         |
| 15,900.00                                    | 8,835.00            | 6,667.07            | 4,947.14            | 148.73          | 32.51       | -0.82                 | 1,104.23                          | 5,675.23   | 4,051.91             | 3,975.30              | 76.61                   | 52.892            |                    |         |
| 16,000.00                                    | 8,835.00            | 6,664.43            | 4,947.12            | 150.73          | 32.48       | -0.86                 | 1,106.87                          | 5,675.37   | 4,085.18             | 4,007.82              | 77.36                   | 52.805            |                    |         |
| 16,100.00                                    | 8,835.00            | 6,661.90            | 4,947.11            | 152.73          | 32.45       | -0.90                 | 1,109.40                          | 5,675.49   | 4,120.61             | 4,042.51              | 78.10                   | 52.762 SF         |                    |         |
| 16,200.00                                    | 8,835.00            | 6,659.47            | 4,947.09            | 154.73          | 32.42       | -0.94                 | 1,111.82                          | 5,675.61   | 4,158.13             | 4,079.32              | 78.81                   | 52.762            |                    |         |
| 16,300.00                                    | 8,835.00            | 6,657.14            | 4,947.08            | 156.73          | 32.39       | -0.97                 | 1,114.15                          | 5,675.72   | 4,197.70             | 4,118.20              | 79.50                   | 52.804            |                    |         |
| 16,400.00                                    | 8,835.00            | 6,654.90            | 4,947.06            | 158.74          | 32.36       | -1.00                 | 1,116.39                          | 5,675.82   | 4,239.26             | 4,159.10              | 80.16                   | 52.887            |                    |         |
| 16,500.00                                    | 8,835.00            | 6,652.75            | 4,947.05            | 160.74          | 32.33       | -1.04                 | 1,118.54                          | 5,675.92   | 4,282.74             | 4,201.95              | 80.79                   | 53.010            |                    |         |
| 16,600.00                                    | 8,835.00            | 6,650.68            | 4,947.04            | 162.74          | 32.31       | -1.07                 | 1,120.60                          | 5,676.01   | 4,328.10             | 4,246.70              | 81.40                   | 53.171            |                    |         |
| 16,700.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 164.75          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,375.43             | 4,293.56              | 81.88                   | 53.439            |                    |         |
| 16,800.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 166.76          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,424.34             | 4,341.90              | 82.44                   | 53.668            |                    |         |
| 16,900.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 168.77          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,474.94             | 4,391.97              | 82.97                   | 53.932            |                    |         |
| 17,000.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 170.77          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,527.19             | 4,443.70              | 83.48                   | 54.229            |                    |         |
| 17,100.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 172.78          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,581.02             | 4,497.05              | 83.97                   | 54.557            |                    |         |
| 17,200.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 174.79          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,636.39             | 4,551.96              | 84.43                   | 54.916            |                    |         |
| 17,300.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 176.81          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,693.23             | 4,608.37              | 84.86                   | 55.305            |                    |         |
| 17,400.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 178.82          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,751.50             | 4,666.23              | 85.27                   | 55.721            |                    |         |
| 17,500.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 180.83          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,811.14             | 4,725.48              | 85.66                   | 56.164            |                    |         |
| 17,600.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 182.84          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,872.11             | 4,786.08              | 86.03                   | 56.632            |                    |         |
| 17,700.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 184.86          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,934.35             | 4,847.97              | 86.38                   | 57.126            |                    |         |
| 17,800.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 186.87          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 4,997.81             | 4,911.11              | 86.70                   | 57.642            |                    |         |
| 17,900.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 188.89          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 5,062.46             | 4,975.44              | 87.01                   | 58.181            |                    |         |
| 18,000.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 190.91          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 5,128.24             | 5,040.93              | 87.30                   | 58.741            |                    |         |
| 18,100.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 192.92          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 5,195.11             | 5,107.53              | 87.58                   | 59.321            |                    |         |
| 18,200.00                                    | 8,835.00            | 6,625.00            | 4,946.81            | 194.94          | 31.99       | -1.45                 | 1,146.26                          | 5,676.97   | 5,263.03             | 5,175.20              | 87.83                   | 59.921            |                    |         |
| 18,300.00                                    | 8,835.00            | 6,624.05            | 4,946.80            | 196.96          | 31.98       | -1.46                 | 1,147.22                          | 5,677.00   | 5,331.96             | 5,243.89              | 88.07                   | 60.544            |                    |         |
| 18,400.00                                    | 8,835.00            | 6,620.97            | 4,946.77            | 198.98          | 31.94       | -1.51                 | 1,150.29                          | 5,677.09   | 5,401.86             | 5,313.59              | 88.28                   | 61.192            |                    |         |
| 18,500.00                                    | 8,835.00            | 6,617.92            | 4,946.74            | 201.00          | 31.90       | -1.55                 | 1,153.34                          | 5,677.19   | 5,472.70             | 5,384.23              | 88.47                   | 61.858            |                    |         |
| 18,600.00                                    | 8,835.00            | 6,614.89            | 4,946.70            | 203.02          | 31.86       | -1.60                 | 1,156.36                          | 5,677.28   | 5,544.43             | 5,455.78              | 88.65                   | 62.540            |                    |         |
| 18,700.00                                    | 8,835.00            | 6,611.90            | 4,946.67            | 205.04          | 31.83       | -1.64                 | 1,159.36                          | 5,677.37   | 5,617.02             | 5,528.20              | 88.82                   | 63.239            |                    |         |
| 18,800.00                                    | 8,835.00            | 6,608.93            | 4,946.64            | 207.06          | 31.79       | -1.69                 | 1,162.33                          | 5,677.46   | 5,690.45             | 5,601.47              | 88.98                   | 63.952            |                    |         |
| 18,900.00                                    | 8,835.00            | 6,247.00            | 4,947.05            | 209.08          | 27.44       | -7.04                 | 1,523.35                          | 5,699.85   | 5,764.52             | 5,676.29              | 88.23                   | 65.334            |                    |         |
| 19,000.00                                    | 8,835.00            | 6,247.00            | 4,947.05            | 211.10          | 27.44       | -7.04                 | 1,523.35                          | 5,699.85   | 5,839.09             | 5,750.74              | 88.35                   | 66.089            |                    |         |
| 19,100.00                                    | 8,835.00            | 6,247.00            | 4,947.05            | 213.12          | 27.44       | -7.04                 | 1,523.35                          | 5,699.85   | 5,914.42             | 5,825.95              | 88.46                   | 66.857            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw State Com 2H - ST01 - ST01 |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Site Error:</b> | 5.00 ft |
|-----------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|-----------------------------------------|---------------|-------------------------|--------------------------|----------------------------|---------------------------|---------|
| Survey Program: 80-GYRO-NS-CT, 4361-MWD+HDGM                                      |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                         |                        | Offset                 |                        | Semi Major Axis   |                |                          | Distance                                |               |                         |                          |                            |                           | Warning |
| Measured Depth<br>(ft)                                                            | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between Centres<br>(ft) | Between Ellipses<br>(ft) | Minimum Separation<br>(ft) | Separation Factor         |         |
| 19,200.00                                                                         | 8,835.00               | 6,247.00               | 4,947.05               | 215.15            | 27.44          | -7.04                    | 1,523.35                                | 5,699.85      | 5,990.46                | 5,901.89                 | 88.57                      | 67.638                    |         |
| 19,308.27                                                                         | 8,835.00               | 6,247.00               | 4,947.05               | 217.34            | 27.44          | -7.04                    | 1,523.35                                | 5,699.85      | 6,073.58                | 5,984.91                 | 88.67                      | 68.497                    |         |



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 80-GYRO-NS-CT |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                          | 0.00                | 0.00                | 0.00                | 0.50            | 5.02        | 61.82                 | 3,098.47                          | 5,783.09   | 6,561.05             |                       |                         |                   |                    |         |
| 100.00                        | 100.00              | 44.15               | 44.15               | 0.52            | 5.03        | 61.82                 | 3,098.46                          | 5,783.11   | 6,560.86             | 6,555.31              | 5.54                    | 1,183.637         |                    |         |
| 200.00                        | 200.00              | 139.73              | 139.73              | 0.70            | 5.03        | 61.82                 | 3,098.39                          | 5,783.26   | 6,560.96             | 6,555.23              | 5.74                    | 1,143.782         |                    |         |
| 300.00                        | 300.00              | 235.12              | 235.12              | 0.99            | 5.07        | 61.82                 | 3,098.28                          | 5,783.49   | 6,561.12             | 6,555.07              | 6.05                    | 1,084.034         |                    |         |
| 400.00                        | 400.00              | 332.24              | 332.24              | 1.31            | 5.12        | 61.82                 | 3,098.14                          | 5,783.82   | 6,561.35             | 6,554.92              | 6.43                    | 1,020.730         |                    |         |
| 500.00                        | 500.00              | 425.78              | 425.77              | 1.65            | 5.19        | 61.83                 | 3,097.94                          | 5,784.22   | 6,561.63             | 6,554.79              | 6.84                    | 959.655           |                    |         |
| 600.00                        | 600.00              | 519.62              | 519.61              | 1.99            | 5.28        | 61.83                 | 3,097.68                          | 5,784.79   | 6,562.03             | 6,554.75              | 7.27                    | 902.111           |                    |         |
| 700.00                        | 700.00              | 610.56              | 610.55              | 2.34            | 5.39        | 61.84                 | 3,097.30                          | 5,785.50   | 6,562.52             | 6,554.79              | 7.73                    | 849.000           |                    |         |
| 800.00                        | 800.00              | 709.60              | 709.59              | 2.69            | 5.53        | 61.85                 | 3,096.77                          | 5,786.47   | 6,563.13             | 6,554.92              | 8.22                    | 798.807           |                    |         |
| 900.00                        | 900.00              | 805.23              | 805.20              | 3.04            | 5.68        | 61.86                 | 3,095.91                          | 5,787.58   | 6,563.73             | 6,555.01              | 8.72                    | 752.979           |                    |         |
| 1,000.00                      | 1,000.00            | 893.68              | 893.64              | 3.40            | 5.83        | 61.87                 | 3,094.99                          | 5,788.81   | 6,564.47             | 6,555.24              | 9.22                    | 711.818           |                    |         |
| 1,100.00                      | 1,100.00            | 984.35              | 984.29              | 3.75            | 5.99        | 61.88                 | 3,093.88                          | 5,790.34   | 6,565.38             | 6,555.64              | 9.75                    | 673.708           |                    |         |
| 1,200.00                      | 1,200.00            | 1,087.89            | 1,087.80            | 4.11            | 6.20        | 61.90                 | 3,092.43                          | 5,792.27   | 6,566.36             | 6,556.05              | 10.31                   | 637.046           |                    |         |
| 1,300.00                      | 1,300.00            | 1,199.53            | 1,199.40            | 4.46            | 6.44        | 61.93                 | 3,090.37                          | 5,794.42   | 6,567.19             | 6,556.29              | 10.90                   | 602.295           |                    |         |
| 1,400.00                      | 1,400.00            | 1,308.67            | 1,308.48            | 4.82            | 6.69        | 61.96                 | 3,087.61                          | 5,796.72   | 6,567.86             | 6,556.35              | 11.51                   | 570.577           |                    |         |
| 1,500.00                      | 1,500.00            | 1,414.21            | 1,413.95            | 5.18            | 6.95        | 61.99                 | 3,084.42                          | 5,799.09   | 6,568.43             | 6,556.30              | 12.12                   | 541.768           |                    |         |
| 1,600.00                      | 1,600.00            | 1,519.98            | 1,519.65            | 5.53            | 7.21        | 62.02                 | 3,081.38                          | 5,801.27   | 6,568.90             | 6,556.15              | 12.75                   | 515.292           |                    |         |
| 1,700.00                      | 1,700.00            | 1,611.49            | 1,611.12            | 5.89            | 7.45        | 62.05                 | 3,079.21                          | 5,802.88   | 6,569.35             | 6,556.01              | 13.34                   | 492.371           |                    |         |
| 1,800.00                      | 1,800.00            | 1,686.42            | 1,686.03            | 6.25            | 7.65        | 62.06                 | 3,077.80                          | 5,804.33   | 6,570.15             | 6,556.26              | 13.90                   | 472.757           |                    |         |
| 1,900.00                      | 1,900.00            | 1,773.84            | 1,773.42            | 6.61            | 7.89        | 62.08                 | 3,076.50                          | 5,806.11   | 6,571.26             | 6,556.77              | 14.49                   | 453.497           |                    |         |
| 2,000.00                      | 2,000.00            | 1,894.86            | 1,894.42            | 6.96            | 8.22        | 62.10                 | 3,075.26                          | 5,808.10   | 6,572.22             | 6,557.04              | 15.18                   | 432.955           |                    |         |
| 2,100.00                      | 2,099.99            | 1,998.46            | 1,998.01            | 7.32            | 8.51        | 74.89                 | 3,074.49                          | 5,809.44   | 6,572.79             | 6,556.96              | 15.83                   | 415.297           |                    |         |
| 2,200.00                      | 2,199.96            | 2,097.78            | 2,097.31            | 7.68            | 8.79        | 74.92                 | 3,073.83                          | 5,810.61   | 6,572.85             | 6,556.38              | 16.47                   | 399.179           |                    |         |
| 2,300.00                      | 2,299.86            | 2,189.16            | 2,188.68            | 8.04            | 9.06        | 74.97                 | 3,073.03                          | 5,811.92   | 6,572.56             | 6,555.47              | 17.09                   | 384.660           |                    |         |
| 2,400.00                      | 2,399.68            | 2,284.53            | 2,284.04            | 8.39            | 9.34        | 75.04                 | 3,072.15                          | 5,813.40   | 6,571.92             | 6,554.20              | 17.72                   | 370.814           |                    |         |
| 2,500.00                      | 2,499.37            | 2,383.62            | 2,383.11            | 8.75            | 9.63        | 75.13                 | 3,071.25                          | 5,814.96   | 6,570.88             | 6,552.51              | 18.37                   | 357.622           |                    |         |
| 2,600.00                      | 2,598.90            | 2,485.88            | 2,485.36            | 9.11            | 9.94        | 75.24                 | 3,070.48                          | 5,816.48   | 6,569.39             | 6,550.36              | 19.04                   | 345.078           |                    |         |
| 2,700.00                      | 2,698.26            | 2,590.33            | 2,589.79            | 9.46            | 10.26       | 75.37                 | 3,069.83                          | 5,817.88   | 6,567.41             | 6,547.70              | 19.71                   | 333.186           |                    |         |
| 2,800.00                      | 2,797.40            | 2,692.55            | 2,692.00            | 9.82            | 10.57       | 75.51                 | 3,069.12                          | 5,819.21   | 6,564.94             | 6,544.56              | 20.38                   | 322.108           |                    |         |
| 2,900.00                      | 2,896.30            | 2,791.44            | 2,790.88            | 10.18           | 10.88       | 75.68                 | 3,068.42                          | 5,820.48   | 6,562.05             | 6,541.00              | 21.04                   | 311.814           |                    |         |
| 3,000.00                      | 2,994.93            | 2,884.08            | 2,883.51            | 10.54           | 11.17       | 75.85                 | 3,067.65                          | 5,821.76   | 6,558.80             | 6,537.11              | 21.69                   | 302.354           |                    |         |
| 3,100.00                      | 3,093.26            | 2,981.90            | 2,981.32            | 10.90           | 11.47       | 76.05                 | 3,066.81                          | 5,823.21   | 6,555.25             | 6,532.89              | 22.36                   | 293.170           |                    |         |
| 3,195.07                      | 3,186.42            | 3,074.03            | 3,073.43            | 11.24           | 11.76       | 76.25                 | 3,066.19                          | 5,824.47   | 6,551.52             | 6,528.53              | 22.99                   | 284.915           |                    |         |
| 3,200.00                      | 3,191.25            | 3,078.71            | 3,078.11            | 11.26           | 11.78       | 76.26                 | 3,066.16                          | 5,824.53   | 6,551.32             | 6,528.29              | 23.03                   | 284.502           |                    |         |
| 3,300.00                      | 3,289.08            | 3,163.90            | 3,163.30            | 11.62           | 12.05       | 76.42                 | 3,065.70                          | 5,825.73   | 6,547.36             | 6,523.70              | 23.66                   | 276.713           |                    |         |
| 3,400.00                      | 3,386.91            | 3,243.19            | 3,242.57            | 11.98           | 12.30       | 76.56                 | 3,065.38                          | 5,827.00   | 6,543.71             | 6,519.43              | 24.28                   | 269.520           |                    |         |
| 3,500.00                      | 3,484.74            | 3,327.36            | 3,326.73            | 12.35           | 12.57       | 76.72                 | 3,065.21                          | 5,828.55   | 6,540.41             | 6,515.49              | 24.92                   | 262.505           |                    |         |
| 3,600.00                      | 3,582.58            | 3,436.53            | 3,435.89            | 12.72           | 12.92       | 76.92                 | 3,065.29                          | 5,830.45   | 6,537.22             | 6,511.58              | 25.63                   | 255.014           |                    |         |
| 3,700.00                      | 3,680.41            | 3,546.59            | 3,545.93            | 13.09           | 13.28       | 77.12                 | 3,065.61                          | 5,831.89   | 6,533.80             | 6,507.44              | 26.36                   | 247.874           |                    |         |
| 3,800.00                      | 3,778.24            | 3,647.98            | 3,647.32            | 13.46           | 13.60       | 77.30                 | 3,066.06                          | 5,833.07   | 6,530.39             | 6,503.33              | 27.06                   | 241.343           |                    |         |
| 3,900.00                      | 3,876.08            | 3,742.55            | 3,741.88            | 13.83           | 13.91       | 77.46                 | 3,066.75                          | 5,834.03   | 6,527.02             | 6,499.28              | 27.74                   | 235.311           |                    |         |
| 4,000.00                      | 3,973.91            | 3,841.61            | 3,840.93            | 14.21           | 14.23       | 77.63                 | 3,067.74                          | 5,834.94   | 6,523.75             | 6,495.31              | 28.43                   | 229.436           |                    |         |
| 4,100.00                      | 4,071.74            | 3,941.81            | 3,941.12            | 14.58           | 14.56       | 77.81                 | 3,068.79                          | 5,835.81   | 6,520.50             | 6,491.36              | 29.14                   | 223.796           |                    |         |
| 4,200.00                      | 4,169.57            | 4,061.03            | 4,060.34            | 14.96           | 14.95       | 78.01                 | 3,069.89                          | 5,836.69   | 6,517.16             | 6,487.25              | 29.90                   | 217.949           |                    |         |
| 4,300.00                      | 4,267.41            | 4,159.66            | 4,158.96            | 15.33           | 15.27       | 78.18                 | 3,070.74                          | 5,837.28   | 6,513.72             | 6,483.11              | 30.60                   | 212.844           |                    |         |
| 4,400.00                      | 4,365.24            | 4,265.95            | 4,265.24            | 15.71           | 15.62       | 78.37                 | 3,071.62                          | 5,837.80   | 6,510.23             | 6,478.90              | 31.33                   | 207.788           |                    |         |
| 4,500.00                      | 4,463.07            | 4,366.55            | 4,365.83            | 16.09           | 15.95       | 78.54                 | 3,072.45                          | 5,838.22   | 6,506.73             | 6,474.69              | 32.04                   | 203.070           |                    |         |
| 4,600.00                      | 4,560.90            | 4,465.25            | 4,464.53            | 16.47           | 16.28       | 78.72                 | 3,073.22                          | 5,838.61   | 6,503.26             | 6,470.51              | 32.75                   | 198.585           |                    |         |
| 4,700.00                      | 4,658.74            | 4,563.70            | 4,562.98            | 16.85           | 16.61       | 78.89                 | 3,073.99                          | 5,839.01   | 6,499.86             | 6,466.41              | 33.45                   | 194.288           |                    |         |
| 4,800.00                      | 4,756.57            | 4,668.31            | 4,667.59            | 17.23           | 16.96       | 79.07                 | 3,074.79                          | 5,839.38   | 6,496.46             | 6,462.28              | 34.18                   | 190.049           |                    |         |
| 4,900.00                      | 4,854.40            | 4,775.90            | 4,775.17            | 17.61           | 17.32       | 79.26                 | 3,075.59                          | 5,839.62   | 6,493.00             | 6,458.07              | 34.92                   | 185.926           |                    |         |
| 5,000.00                      | 4,952.23            | 4,875.74            | 4,875.01            | 17.99           | 17.65       | 79.43                 | 3,076.39                          | 5,839.69   | 6,489.49             | 6,453.85              | 35.64                   | 182.098           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 80-GYRO-NS-CT |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                      | 5,050.07            | 4,962.68            | 4,961.94            | 18.37           | 17.94       | 79.58                 | 3,077.25                          | 5,839.75   | 6,486.10             | 6,449.79              | 36.31                   | 178.626           |                    |         |
| 5,200.00                      | 5,147.90            | 5,037.44            | 5,036.70            | 18.75           | 18.19       | 79.71                 | 3,078.21                          | 5,839.91   | 6,483.03             | 6,446.08              | 36.95                   | 175.478           |                    |         |
| 5,300.00                      | 5,245.73            | 5,110.26            | 5,109.51            | 19.14           | 18.44       | 79.83                 | 3,079.38                          | 5,840.31   | 6,480.42             | 6,442.85              | 37.57                   | 172.475           |                    |         |
| 5,400.00                      | 5,343.56            | 5,192.98            | 5,192.21            | 19.52           | 18.71       | 79.97                 | 3,080.88                          | 5,840.95   | 6,478.17             | 6,439.93              | 38.23                   | 169.431           |                    |         |
| 5,500.00                      | 5,441.40            | 5,280.82            | 5,280.03            | 19.90           | 19.01       | 80.12                 | 3,082.63                          | 5,841.77   | 6,476.17             | 6,437.25              | 38.91                   | 166.419           |                    |         |
| 5,600.00                      | 5,539.23            | 5,403.78            | 5,402.96            | 20.29           | 19.43       | 80.32                 | 3,085.03                          | 5,842.70   | 6,474.05             | 6,434.33              | 39.71                   | 163.015           |                    |         |
| 5,700.00                      | 5,637.06            | 5,501.95            | 5,501.12            | 20.67           | 19.76       | 80.49                 | 3,086.99                          | 5,843.27   | 6,471.85             | 6,431.42              | 40.43                   | 160.071           |                    |         |
| 5,800.00                      | 5,734.90            | 5,614.04            | 5,613.18            | 21.05           | 20.14       | 80.68                 | 3,089.09                          | 5,843.93   | 6,469.68             | 6,428.48              | 41.20                   | 157.048           |                    |         |
| 5,900.00                      | 5,832.73            | 5,719.47            | 5,718.61            | 21.44           | 20.49       | 80.86                 | 3,090.36                          | 5,844.50   | 6,467.25             | 6,425.32              | 41.94                   | 154.211           |                    |         |
| 6,000.00                      | 5,930.56            | 5,848.39            | 5,847.52            | 21.83           | 20.93       | 81.09                 | 3,090.67                          | 5,845.48   | 6,464.77             | 6,422.01              | 42.76                   | 151.191           |                    |         |
| 6,100.00                      | 6,028.39            | 5,987.96            | 5,987.07            | 22.21           | 21.41       | 81.36                 | 3,089.44                          | 5,846.27   | 6,461.75             | 6,418.14              | 43.62                   | 148.153           |                    |         |
| 6,200.00                      | 6,126.23            | 6,136.45            | 6,135.55            | 22.60           | 21.91       | 81.65                 | 3,087.36                          | 5,846.18   | 6,458.04             | 6,413.54              | 44.50                   | 145.128           |                    |         |
| 6,300.00                      | 6,224.06            | 6,380.76            | 6,379.80            | 22.98           | 22.73       | 82.10                 | 3,085.00                          | 5,841.95   | 6,453.21             | 6,407.53              | 45.68                   | 141.270           |                    |         |
| 6,400.00                      | 6,321.89            | 6,476.41            | 6,475.40            | 23.37           | 23.06       | 82.27                 | 3,083.51                          | 5,839.09   | 6,446.93             | 6,400.54              | 46.39                   | 138.974           |                    |         |
| 6,500.00                      | 6,419.72            | 6,573.59            | 6,572.53            | 23.76           | 23.38       | 82.46                 | 3,081.42                          | 5,836.66   | 6,440.94             | 6,393.83              | 47.10                   | 136.737           |                    |         |
| 6,600.00                      | 6,517.56            | 6,647.22            | 6,646.12            | 24.14           | 23.63       | 82.61                 | 3,079.63                          | 5,834.91   | 6,435.07             | 6,387.32              | 47.75                   | 134.776           |                    |         |
| 6,700.00                      | 6,615.39            | 6,713.27            | 6,712.13            | 24.53           | 23.86       | 82.73                 | 3,078.28                          | 5,833.64   | 6,429.78             | 6,381.42              | 48.36                   | 132.944           |                    |         |
| 6,800.00                      | 6,713.22            | 6,808.81            | 6,807.65            | 24.92           | 24.18       | 82.92                 | 3,076.65                          | 5,832.02   | 6,424.90             | 6,375.82              | 49.08                   | 130.917           |                    |         |
| 6,900.00                      | 6,811.05            | 6,953.77            | 6,952.55            | 25.30           | 24.67       | 83.19                 | 3,074.20                          | 5,828.52   | 6,419.35             | 6,369.40              | 49.94                   | 128.531           |                    |         |
| 7,000.00                      | 6,908.89            | 6,978.42            | 6,977.18            | 25.69           | 24.76       | 83.24                 | 3,073.82                          | 5,827.87   | 6,414.21             | 6,363.78              | 50.43                   | 127.186           |                    |         |
| 7,100.00                      | 7,006.72            | 6,978.42            | 6,977.18            | 26.08           | 24.76       | 83.24                 | 3,073.82                          | 5,827.87   | 6,410.59             | 6,359.76              | 50.83                   | 126.110           |                    |         |
| 7,200.00                      | 7,104.55            | 6,978.42            | 6,977.18            | 26.47           | 24.76       | 83.24                 | 3,073.82                          | 5,827.87   | 6,408.52             | 6,357.30              | 51.23                   | 125.104           |                    |         |
| 7,216.87                      | 7,121.05            | 6,978.42            | 6,977.18            | 26.53           | 24.76       | 83.24                 | 3,073.82                          | 5,827.87   | 6,408.33             | 6,357.04              | 51.29                   | 124.941           |                    |         |
| 7,271.60                      | 7,174.68            | 6,978.42            | 6,977.18            | 26.74           | 24.76       | 83.24                 | 3,073.82                          | 5,827.87   | 6,408.05             | 6,356.55              | 51.50                   | 124.429           |                    |         |
| 7,300.00                      | 7,202.57            | 6,978.42            | 6,977.18            | 26.85           | 24.76       | 83.24                 | 3,073.82                          | 5,827.87   | 6,408.12             | 6,356.52              | 51.61                   | 124.173           |                    |         |
| 7,400.00                      | 7,301.06            | 6,978.42            | 6,977.18            | 27.23           | 24.76       | 83.26                 | 3,073.82                          | 5,827.87   | 6,409.59             | 6,357.62              | 51.97                   | 123.328           |                    |         |
| 7,500.00                      | 7,399.97            | 6,978.42            | 6,977.18            | 27.61           | 24.76       | 83.31                 | 3,073.82                          | 5,827.87   | 6,412.92             | 6,360.60              | 52.32                   | 122.568           |                    |         |
| 7,600.00                      | 7,499.23            | 6,978.42            | 6,977.18            | 27.98           | 24.76       | 83.39                 | 3,073.82                          | 5,827.87   | 6,418.11             | 6,365.46              | 52.65                   | 121.892           |                    |         |
| 7,700.00                      | 7,598.77            | 6,978.42            | 6,977.18            | 28.34           | 24.76       | 83.49                 | 3,073.82                          | 5,827.87   | 6,425.16             | 6,372.19              | 52.97                   | 121.298           |                    |         |
| 7,800.00                      | 7,698.53            | 6,978.42            | 6,977.18            | 28.70           | 24.76       | 83.62                 | 3,073.82                          | 5,827.87   | 6,434.05             | 6,380.78              | 53.27                   | 120.785           |                    |         |
| 7,900.00                      | 7,798.44            | 6,978.42            | 6,977.18            | 29.05           | 24.76       | 83.78                 | 3,073.82                          | 5,827.87   | 6,444.76             | 6,391.21              | 53.55                   | 120.349           |                    |         |
| 8,000.00                      | 7,898.42            | 6,978.42            | 6,977.18            | 29.39           | 24.76       | 83.97                 | 3,073.82                          | 5,827.87   | 6,457.29             | 6,403.47              | 53.82                   | 119.990           |                    |         |
| 8,013.58                      | 7,912.00            | 6,978.42            | 6,977.18            | 29.43           | 24.76       | 71.22                 | 3,073.82                          | 5,827.87   | 6,459.13             | 6,405.28              | 53.85                   | 119.946           |                    |         |
| 8,100.00                      | 7,998.42            | 6,978.42            | 6,977.18            | 29.73           | 24.76       | 71.22                 | 3,073.82                          | 5,827.87   | 6,471.51             | 6,417.44              | 54.07                   | 119.696           |                    |         |
| 8,200.00                      | 8,098.42            | 6,978.42            | 6,977.18            | 30.07           | 24.76       | 71.22                 | 3,073.82                          | 5,827.87   | 6,487.24             | 6,432.94              | 54.31                   | 119.454           |                    |         |
| 8,300.00                      | 8,198.42            | 6,978.42            | 6,977.18            | 30.41           | 24.76       | 71.22                 | 3,073.82                          | 5,827.87   | 6,504.48             | 6,449.94              | 54.54                   | 119.264           |                    |         |
| 8,363.62                      | 8,262.04            | 6,978.42            | 6,977.18            | 30.62           | 24.76       | 71.22                 | 3,073.82                          | 5,827.87   | 6,516.21             | 6,461.53              | 54.68                   | 119.168           |                    |         |
| 8,400.00                      | 8,298.40            | 6,978.42            | 6,977.18            | 30.75           | 24.76       | -18.25                | 3,073.82                          | 5,827.87   | 6,522.12             | 6,467.36              | 54.76                   | 119.110           |                    |         |
| 8,450.00                      | 8,348.10            | 6,978.42            | 6,977.18            | 30.91           | 24.76       | -18.10                | 3,073.82                          | 5,827.87   | 6,527.01             | 6,472.15              | 54.86                   | 118.986           |                    |         |
| 8,500.00                      | 8,397.14            | 6,978.42            | 6,977.18            | 31.07           | 24.76       | -18.06                | 3,073.82                          | 5,827.87   | 6,528.14             | 6,473.19              | 54.95                   | 118.801           |                    |         |
| 8,550.00                      | 8,445.15            | 6,978.42            | 6,977.18            | 31.23           | 24.76       | -18.14                | 3,073.82                          | 5,827.87   | 6,525.51             | 6,470.47              | 55.04                   | 118.557           |                    |         |
| 8,600.00                      | 8,491.77            | 6,978.42            | 6,977.18            | 31.38           | 24.76       | -18.34                | 3,073.82                          | 5,827.87   | 6,519.13             | 6,464.01              | 55.13                   | 118.259           |                    |         |
| 8,650.00                      | 8,536.65            | 6,978.42            | 6,977.18            | 31.52           | 24.76       | -18.67                | 3,073.82                          | 5,827.87   | 6,509.04             | 6,453.84              | 55.20                   | 117.907           |                    |         |
| 8,700.00                      | 8,579.43            | 6,978.42            | 6,977.18            | 31.66           | 24.76       | -19.13                | 3,073.82                          | 5,827.87   | 6,495.30             | 6,440.03              | 55.28                   | 117.506           |                    |         |
| 8,750.00                      | 8,619.80            | 6,978.42            | 6,977.18            | 31.80           | 24.76       | -19.75                | 3,073.82                          | 5,827.87   | 6,478.00             | 6,422.66              | 55.34                   | 117.056           |                    |         |
| 8,800.00                      | 8,657.44            | 6,978.42            | 6,977.18            | 31.93           | 24.76       | -20.54                | 3,073.82                          | 5,827.87   | 6,457.23             | 6,401.83              | 55.40                   | 116.560           |                    |         |
| 8,850.00                      | 8,692.08            | 6,978.42            | 6,977.18            | 32.06           | 24.76       | -21.52                | 3,073.82                          | 5,827.87   | 6,433.11             | 6,377.67              | 55.45                   | 116.021           |                    |         |
| 8,900.00                      | 8,723.44            | 6,978.42            | 6,977.18            | 32.19           | 24.76       | -22.75                | 3,073.82                          | 5,827.87   | 6,405.81             | 6,350.32              | 55.49                   | 115.439           |                    |         |
| 8,950.00                      | 8,751.29            | 6,978.42            | 6,977.18            | 32.34           | 24.76       | -24.28                | 3,073.82                          | 5,827.87   | 6,375.48             | 6,319.95              | 55.53                   | 114.817           |                    |         |
| 9,000.00                      | 8,775.42            | 6,978.42            | 6,977.18            | 32.50           | 24.76       | -26.17                | 3,073.82                          | 5,827.87   | 6,342.32             | 6,286.76              | 55.56                   | 114.157           |                    |         |
| 9,050.00                      | 8,795.64            | 6,978.42            | 6,977.18            | 32.67           | 24.76       | -28.52                | 3,073.82                          | 5,827.87   | 6,306.53             | 6,250.94              | 55.58                   | 113.460           |                    |         |
| 9,100.00                      | 8,811.80            | 6,978.42            | 6,977.18            | 32.87           | 24.76       | -31.48                | 3,073.82                          | 5,827.87   | 6,268.34             | 6,212.74              | 55.61                   | 112.729           |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 80-GYRO-NS-CT |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                     |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)           | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,150.00                      | 8,823.77            | 6,978.42            | 6,977.18            | 33.10           | 24.76       | -35.24                | 3,073.82                          | 5,827.87   | 6,228.01             | 6,172.39              | 55.62                   | 111.966           |                    |         |
| 9,200.00                      | 8,831.47            | 6,978.42            | 6,977.18            | 33.34           | 24.76       | -40.05                | 3,073.82                          | 5,827.87   | 6,185.80             | 6,130.16              | 55.64                   | 111.174           |                    |         |
| 9,250.00                      | 8,834.84            | 6,978.42            | 6,977.18            | 33.60           | 24.76       | -46.26                | 3,073.82                          | 5,827.87   | 6,142.00             | 6,086.34              | 55.66                   | 110.354           |                    |         |
| 9,263.62                      | 8,835.00            | 6,978.42            | 6,977.18            | 33.67           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 6,129.83             | 6,074.17              | 55.66                   | 110.124           |                    |         |
| 9,300.00                      | 8,835.00            | 6,978.42            | 6,977.18            | 33.88           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 6,097.23             | 6,041.55              | 55.67                   | 109.517           |                    |         |
| 9,400.00                      | 8,835.00            | 6,978.42            | 6,977.18            | 34.53           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 6,007.83             | 5,952.12              | 55.72                   | 107.829           |                    |         |
| 9,500.00                      | 8,835.00            | 6,978.42            | 6,977.18            | 35.30           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,918.78             | 5,862.99              | 55.78                   | 106.108           |                    |         |
| 9,600.00                      | 8,835.00            | 6,978.42            | 6,977.18            | 36.17           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,830.07             | 5,774.21              | 55.87                   | 104.352           |                    |         |
| 9,700.00                      | 8,835.00            | 6,978.42            | 6,977.18            | 37.13           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,741.74             | 5,685.76              | 55.98                   | 102.562           |                    |         |
| 9,800.00                      | 8,835.00            | 6,978.42            | 6,977.18            | 38.18           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,653.80             | 5,597.68              | 56.12                   | 100.737           |                    |         |
| 9,900.00                      | 8,835.00            | 6,978.42            | 6,977.18            | 39.31           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,566.27             | 5,509.97              | 56.30                   | 98.876            |                    |         |
| 10,000.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 40.51           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,479.16             | 5,422.66              | 56.50                   | 96.981            |                    |         |
| 10,100.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 41.78           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,392.50             | 5,335.77              | 56.73                   | 95.052            |                    |         |
| 10,200.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 43.10           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,306.31             | 5,249.31              | 57.00                   | 93.089            |                    |         |
| 10,300.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 44.49           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,220.61             | 5,163.30              | 57.31                   | 91.093            |                    |         |
| 10,400.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 45.92           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,135.43             | 5,077.77              | 57.66                   | 89.067            |                    |         |
| 10,500.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 47.39           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 5,050.79             | 4,992.75              | 58.05                   | 87.012            |                    |         |
| 10,600.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 48.91           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,966.73             | 4,908.25              | 58.48                   | 84.930            |                    |         |
| 10,700.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 50.47           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,883.26             | 4,824.30              | 58.96                   | 82.825            |                    |         |
| 10,800.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 52.06           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,800.43             | 4,740.94              | 59.49                   | 80.698            |                    |         |
| 10,900.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 53.68           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,718.26             | 4,658.19              | 60.06                   | 78.554            |                    |         |
| 11,000.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 55.32           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,636.79             | 4,576.10              | 60.69                   | 76.397            |                    |         |
| 11,100.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 57.00           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,556.06             | 4,494.68              | 61.38                   | 74.230            |                    |         |
| 11,200.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 58.70           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,476.11             | 4,413.99              | 62.12                   | 72.058            |                    |         |
| 11,300.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 60.41           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,396.98             | 4,334.06              | 62.92                   | 69.886            |                    |         |
| 11,400.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 62.15           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,318.71             | 4,254.94              | 63.78                   | 67.717            |                    |         |
| 11,500.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 63.91           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,241.36             | 4,176.66              | 64.70                   | 65.558            |                    |         |
| 11,600.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 65.69           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,164.97             | 4,099.29              | 65.68                   | 63.413            |                    |         |
| 11,700.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 67.47           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,089.60             | 4,022.87              | 66.73                   | 61.287            |                    |         |
| 11,800.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 69.28           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 4,015.31             | 3,947.47              | 67.84                   | 59.185            |                    |         |
| 11,900.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 71.09           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,942.15             | 3,873.13              | 69.03                   | 57.111            |                    |         |
| 12,000.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 72.92           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,870.20             | 3,799.92              | 70.28                   | 55.071            |                    |         |
| 12,100.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 74.76           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,799.51             | 3,727.92              | 71.60                   | 53.069            |                    |         |
| 12,200.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 76.61           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,730.17             | 3,657.18              | 72.98                   | 51.110            |                    |         |
| 12,300.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 78.47           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,662.24             | 3,587.80              | 74.44                   | 49.196            |                    |         |
| 12,400.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 80.34           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,595.81             | 3,519.84              | 75.97                   | 47.333            |                    |         |
| 12,500.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 82.22           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,530.97             | 3,453.40              | 77.57                   | 45.523            |                    |         |
| 12,600.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 84.11           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,467.79             | 3,388.57              | 79.23                   | 43.769            |                    |         |
| 12,700.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 86.00           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,406.39             | 3,325.43              | 80.96                   | 42.075            |                    |         |
| 12,800.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 87.90           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,346.84             | 3,264.08              | 82.75                   | 40.444            |                    |         |
| 12,900.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 89.81           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,289.25             | 3,204.64              | 84.61                   | 38.876            |                    |         |
| 13,000.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 91.72           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,233.74             | 3,147.21              | 86.52                   | 37.374            |                    |         |
| 13,100.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 93.64           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,180.39             | 3,091.90              | 88.49                   | 35.940            |                    |         |
| 13,200.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 95.56           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,129.34             | 3,038.83              | 90.51                   | 34.574            |                    |         |
| 13,300.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 97.49           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,080.69             | 2,988.11              | 92.57                   | 33.278            |                    |         |
| 13,400.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 99.42           | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 3,034.55             | 2,939.87              | 94.67                   | 32.052            |                    |         |
| 13,500.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 101.36          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,991.04             | 2,894.24              | 96.81                   | 30.897            |                    |         |
| 13,600.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 103.30          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,950.29             | 2,851.33              | 98.96                   | 29.813            |                    |         |
| 13,700.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 105.25          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,912.40             | 2,811.27              | 101.13                  | 28.799            |                    |         |
| 13,800.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 107.20          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,877.49             | 2,774.19              | 103.30                  | 27.855            |                    |         |
| 13,900.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 109.15          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,845.66             | 2,740.19              | 105.47                  | 26.981            |                    |         |
| 14,000.00                     | 8,835.00            | 6,978.42            | 6,977.18            | 111.10          | 24.76       | -48.25                | 3,073.82                          | 5,827.87   | 2,817.03             | 2,709.41              | 107.62                  | 26.176            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                 |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |        | Sec 13-T21S-R27E - Lone Tree Draw State Com 2H - Wellbore #1 - Wellbore #1 |         | Offset Site Error: 5.00 ft |  |
|-------------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|--------|----------------------------------------------------------------------------|---------|----------------------------|--|
| Survey Program: 80-GYRO-NS-CT |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |        | Offset Well Error: 0.50 ft                                                 |         |                            |  |
| Reference                     |                | Offset         |                | Semi Major Axis |        |                   | Distance               |                 |                  |                    |                   |        |                                                                            | Warning |                            |  |
| Measured Depth                | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor |        |                                                                            |         |                            |  |
| (ft)                          | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft)      | (ft)             | (ft)               | (ft)              |        |                                                                            |         |                            |  |
| 14,100.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 113.06          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,791.69         | 2,681.95           | 109.74            | 25.439 |                                                                            |         |                            |  |
| 14,200.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 115.03          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,769.72         | 2,657.90           | 111.82            | 24.769 |                                                                            |         |                            |  |
| 14,300.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 116.99          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,751.22         | 2,637.37           | 113.86            | 24.164 |                                                                            |         |                            |  |
| 14,400.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 118.96          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,736.26         | 2,620.43           | 115.83            | 23.624 |                                                                            |         |                            |  |
| 14,500.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 120.93          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,724.88         | 2,607.16           | 117.72            | 23.147 |                                                                            |         |                            |  |
| 14,600.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 122.90          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,717.13         | 2,597.60           | 119.53            | 22.731 |                                                                            |         |                            |  |
| 14,700.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 124.88          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,713.06         | 2,591.81           | 121.25            | 22.375 |                                                                            |         |                            |  |
| 14,760.69                     | 8,835.00       | 6,978.42       | 6,977.18       | 126.08          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,712.38         | 2,590.13           | 122.25            | 22.188 | CC                                                                         |         |                            |  |
| 14,800.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 126.86          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,712.66         | 2,589.79           | 122.87            | 22.078 | ES                                                                         |         |                            |  |
| 14,900.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 128.84          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,715.95         | 2,591.58           | 124.38            | 21.837 |                                                                            |         |                            |  |
| 15,000.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 130.82          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,722.91         | 2,597.15           | 125.77            | 21.650 |                                                                            |         |                            |  |
| 15,100.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 132.80          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,733.52         | 2,606.48           | 127.04            | 21.517 |                                                                            |         |                            |  |
| 15,200.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 134.79          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,747.72         | 2,619.53           | 128.19            | 21.435 |                                                                            |         |                            |  |
| 15,300.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 136.78          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,765.47         | 2,636.26           | 129.22            | 21.402 | SF                                                                         |         |                            |  |
| 15,400.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 138.76          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,786.70         | 2,656.58           | 130.12            | 21.417 |                                                                            |         |                            |  |
| 15,500.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 140.76          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,811.33         | 2,680.43           | 130.90            | 21.477 |                                                                            |         |                            |  |
| 15,600.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 142.75          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,839.27         | 2,707.71           | 131.56            | 21.582 |                                                                            |         |                            |  |
| 15,700.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 144.74          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,870.42         | 2,738.32           | 132.10            | 21.729 |                                                                            |         |                            |  |
| 15,800.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 146.74          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,904.68         | 2,772.15           | 132.53            | 21.917 |                                                                            |         |                            |  |
| 15,900.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 148.73          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,941.94         | 2,809.09           | 132.86            | 22.144 |                                                                            |         |                            |  |
| 16,000.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 150.73          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 2,982.09         | 2,849.01           | 133.08            | 22.408 |                                                                            |         |                            |  |
| 16,100.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 152.73          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,025.02         | 2,891.80           | 133.21            | 22.708 |                                                                            |         |                            |  |
| 16,200.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 154.73          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,070.60         | 2,937.34           | 133.26            | 23.042 |                                                                            |         |                            |  |
| 16,300.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 156.73          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,118.73         | 2,985.50           | 133.23            | 23.409 |                                                                            |         |                            |  |
| 16,400.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 158.74          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,169.28         | 3,036.16           | 133.12            | 23.807 |                                                                            |         |                            |  |
| 16,500.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 160.74          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,222.14         | 3,089.19           | 132.95            | 24.236 |                                                                            |         |                            |  |
| 16,600.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 162.74          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,277.20         | 3,144.48           | 132.72            | 24.692 |                                                                            |         |                            |  |
| 16,700.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 164.75          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,334.35         | 3,201.91           | 132.44            | 25.176 |                                                                            |         |                            |  |
| 16,800.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 166.76          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,393.49         | 3,261.37           | 132.11            | 25.686 |                                                                            |         |                            |  |
| 16,900.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 168.77          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,454.51         | 3,322.76           | 131.75            | 26.221 |                                                                            |         |                            |  |
| 17,000.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 170.77          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,517.31         | 3,385.97           | 131.34            | 26.780 |                                                                            |         |                            |  |
| 17,100.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 172.78          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,581.81         | 3,450.90           | 130.91            | 27.361 |                                                                            |         |                            |  |
| 17,200.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 174.79          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,647.90         | 3,517.45           | 130.45            | 27.963 |                                                                            |         |                            |  |
| 17,300.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 176.81          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,715.52         | 3,585.54           | 129.97            | 28.587 |                                                                            |         |                            |  |
| 17,400.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 178.82          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,784.56         | 3,655.09           | 129.48            | 29.230 |                                                                            |         |                            |  |
| 17,500.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 180.83          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,854.97         | 3,726.00           | 128.97            | 29.892 |                                                                            |         |                            |  |
| 17,600.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 182.84          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,926.66         | 3,798.22           | 128.44            | 30.571 |                                                                            |         |                            |  |
| 17,700.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 184.86          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 3,999.56         | 3,871.65           | 127.91            | 31.268 |                                                                            |         |                            |  |
| 17,800.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 186.87          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 4,073.62         | 3,946.24           | 127.38            | 31.981 |                                                                            |         |                            |  |
| 17,900.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 188.89          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 4,148.76         | 4,021.92           | 126.84            | 32.709 |                                                                            |         |                            |  |
| 18,000.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 190.91          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 4,224.94         | 4,098.64           | 126.30            | 33.452 |                                                                            |         |                            |  |
| 18,100.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 192.92          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 4,302.09         | 4,176.33           | 125.76            | 34.210 |                                                                            |         |                            |  |
| 18,200.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 194.94          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 4,380.16         | 4,254.94           | 125.22            | 34.980 |                                                                            |         |                            |  |
| 18,300.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 196.96          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 4,459.11         | 4,334.43           | 124.68            | 35.764 |                                                                            |         |                            |  |
| 18,400.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 198.98          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 4,538.89         | 4,414.74           | 124.15            | 36.560 |                                                                            |         |                            |  |
| 18,500.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 201.00          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 4,619.46         | 4,495.84           | 123.62            | 37.368 |                                                                            |         |                            |  |
| 18,600.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 203.02          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 4,700.77         | 4,577.67           | 123.10            | 38.186 |                                                                            |         |                            |  |
| 18,700.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 205.04          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 4,782.79         | 4,660.21           | 122.59            | 39.016 |                                                                            |         |                            |  |
| 18,800.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 207.06          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 4,865.49         | 4,743.41           | 122.08            | 39.855 |                                                                            |         |                            |  |
| 18,900.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 209.08          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 4,948.82         | 4,827.24           | 121.58            | 40.705 |                                                                            |         |                            |  |
| 19,000.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 211.10          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 5,032.76         | 4,911.68           | 121.09            | 41.563 |                                                                            |         |                            |  |
| 19,100.00                     | 8,835.00       | 6,978.42       | 6,977.18       | 213.12          | 24.76  | -48.25            | 3,073.82               | 5,827.87        | 5,117.28         | 4,996.68           | 120.60            | 42.431 |                                                                            |         |                            |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree Draw State Com 2H - Wellbore #1 - Wellbore #1 |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Site Error:</b> | 5.00 ft |
|-------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|-----------------------------------------|---------------|-------------------------|--------------------------|----------------------------|---------------------------|---------|
| Survey Program: 80-GYRO-NS-CT                                                                   |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                       |                        | Offset                 |                        | Semi Major Axis   |                |                          | Distance                                |               |                         |                          |                            |                           | Warning |
| Measured Depth<br>(ft)                                                                          | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between Centres<br>(ft) | Between Ellipses<br>(ft) | Minimum Separation<br>(ft) | Separation Factor         |         |
| 19,200.00                                                                                       | 8,835.00               | 6,978.42               | 6,977.18               | 215.15            | 24.76          | -48.25                   | 3,073.82                                | 5,827.87      | 5,202.35                | 5,082.22                 | 120.13                     | 43.306                    |         |
| 19,308.27                                                                                       | 8,835.00               | 6,978.42               | 6,977.18               | 217.34            | 24.76          | -48.25                   | 3,073.82                                | 5,827.87      | 5,295.04                | 5,175.41                 | 119.62                     | 44.264                    |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                        | 0.00                | 0.00                | 0.00                | 0.50            | 5.02        | 90.36                 | -44.33                            | 7,023.37   | 7,023.99             |                       |                         |                   |                    |         |
| 100.00                      | 100.00              | 18.20               | 18.20               | 0.52            | 5.03        | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,017.97              | 5.54                    | 1,266.823         |                    |         |
| 200.00                      | 200.00              | 118.20              | 118.20              | 0.70            | 5.28        | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,017.53              | 5.98                    | 1,174.220         |                    |         |
| 300.00                      | 300.00              | 218.20              | 218.20              | 0.99            | 5.91        | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,016.61              | 6.90                    | 1,017.952         |                    |         |
| 400.00                      | 400.00              | 318.20              | 318.20              | 1.31            | 6.82        | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,015.38              | 8.13                    | 863.956           |                    |         |
| 500.00                      | 500.00              | 418.20              | 418.20              | 1.65            | 7.91        | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,013.96              | 9.56                    | 735.027           |                    |         |
| 600.00                      | 600.00              | 518.20              | 518.20              | 1.99            | 9.11        | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,012.41              | 11.11                   | 632.451           |                    |         |
| 700.00                      | 700.00              | 618.20              | 618.20              | 2.34            | 10.40       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,010.78              | 12.74                   | 551.508           |                    |         |
| 800.00                      | 800.00              | 718.20              | 718.20              | 2.69            | 11.73       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,009.09              | 14.42                   | 487.114           |                    |         |
| 900.00                      | 900.00              | 818.20              | 818.20              | 3.04            | 13.10       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,007.37              | 16.14                   | 435.180           |                    |         |
| 1,000.00                    | 1,000.00            | 918.20              | 918.20              | 3.40            | 14.49       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,005.63              | 17.89                   | 392.669           |                    |         |
| 1,100.00                    | 1,100.00            | 1,018.20            | 1,018.20            | 3.75            | 15.90       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,003.86              | 19.65                   | 357.367           |                    |         |
| 1,200.00                    | 1,200.00            | 1,118.20            | 1,118.20            | 4.11            | 17.33       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,002.08              | 21.44                   | 327.664           |                    |         |
| 1,300.00                    | 1,300.00            | 1,218.20            | 1,218.20            | 4.46            | 18.76       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 7,000.28              | 23.23                   | 302.370           |                    |         |
| 1,400.00                    | 1,400.00            | 1,318.20            | 1,318.20            | 4.82            | 20.21       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 6,998.48              | 25.03                   | 280.601           |                    |         |
| 1,500.00                    | 1,500.00            | 1,418.20            | 1,418.20            | 5.18            | 21.66       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 6,996.67              | 26.84                   | 261.686           |                    |         |
| 1,600.00                    | 1,600.00            | 1,518.20            | 1,518.20            | 5.53            | 23.12       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 6,994.86              | 28.65                   | 245.111           |                    |         |
| 1,700.00                    | 1,700.00            | 1,618.20            | 1,618.20            | 5.89            | 24.58       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 6,993.04              | 30.47                   | 230.473           |                    |         |
| 1,800.00                    | 1,800.00            | 1,718.20            | 1,718.20            | 6.25            | 26.05       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 6,991.21              | 32.30                   | 217.459           |                    |         |
| 1,900.00                    | 1,900.00            | 1,818.20            | 1,818.20            | 6.61            | 27.52       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 6,989.39              | 34.13                   | 205.816           |                    |         |
| 2,000.00                    | 2,000.00            | 1,918.20            | 1,918.20            | 6.96            | 28.99       | 90.36                 | -44.33                            | 7,023.37   | 7,023.51             | 6,987.56              | 35.96                   | 195.341           |                    |         |
| 2,100.00                    | 2,099.99            | 2,018.19            | 2,018.19            | 7.32            | 30.47       | 103.15                | -44.33                            | 7,023.37   | 7,023.71             | 6,985.92              | 37.79                   | 185.877           |                    |         |
| 2,200.00                    | 2,199.96            | 2,118.16            | 2,118.16            | 7.68            | 31.94       | 103.16                | -44.33                            | 7,023.37   | 7,024.31             | 6,984.69              | 39.62                   | 177.294           |                    |         |
| 2,300.00                    | 2,299.86            | 2,218.06            | 2,218.06            | 8.04            | 33.42       | 103.19                | -44.33                            | 7,023.37   | 7,025.30             | 6,983.85              | 41.45                   | 169.477           |                    |         |
| 2,400.00                    | 2,399.68            | 2,317.88            | 2,317.88            | 8.39            | 34.90       | 103.22                | -44.33                            | 7,023.37   | 7,026.70             | 6,983.41              | 43.29                   | 162.333           |                    |         |
| 2,500.00                    | 2,499.37            | 2,417.57            | 2,417.57            | 8.75            | 36.38       | 103.27                | -44.33                            | 7,023.37   | 7,028.50             | 6,983.38              | 45.12                   | 155.781           |                    |         |
| 2,600.00                    | 2,598.90            | 2,517.10            | 2,517.10            | 9.11            | 37.85       | 103.32                | -44.33                            | 7,023.37   | 7,030.71             | 6,983.77              | 46.95                   | 149.752           |                    |         |
| 2,700.00                    | 2,698.26            | 2,616.46            | 2,616.46            | 9.46            | 39.32       | 103.38                | -44.33                            | 7,023.37   | 7,033.34             | 6,984.57              | 48.78                   | 144.189           |                    |         |
| 2,800.00                    | 2,797.40            | 2,715.60            | 2,715.60            | 9.82            | 40.80       | 103.46                | -44.33                            | 7,023.37   | 7,036.40             | 6,985.79              | 50.61                   | 139.042           |                    |         |
| 2,900.00                    | 2,896.30            | 2,814.50            | 2,814.50            | 10.18           | 42.27       | 103.54                | -44.33                            | 7,023.37   | 7,039.88             | 6,987.45              | 52.43                   | 134.267           |                    |         |
| 3,000.00                    | 2,994.93            | 2,913.13            | 2,913.13            | 10.54           | 43.73       | 103.63                | -44.33                            | 7,023.37   | 7,043.81             | 6,989.56              | 54.26                   | 129.828           |                    |         |
| 3,100.00                    | 3,093.26            | 3,011.46            | 3,011.46            | 10.90           | 45.19       | 103.73                | -44.33                            | 7,023.37   | 7,048.19             | 6,992.12              | 56.08                   | 125.691           |                    |         |
| 3,195.07                    | 3,186.42            | 3,104.62            | 3,104.62            | 11.24           | 46.58       | 103.83                | -44.33                            | 7,023.37   | 7,052.78             | 6,994.98              | 57.80                   | 122.012           |                    |         |
| 3,200.00                    | 3,191.25            | 3,109.45            | 3,109.45            | 11.26           | 46.65       | 103.84                | -44.33                            | 7,023.37   | 7,053.03             | 6,995.14              | 57.89                   | 121.828           |                    |         |
| 3,300.00                    | 3,289.08            | 3,207.28            | 3,207.28            | 11.62           | 48.11       | 104.00                | -44.33                            | 7,023.37   | 7,058.12             | 6,998.40              | 59.71                   | 118.204           |                    |         |
| 3,400.00                    | 3,386.91            | 3,305.11            | 3,305.11            | 11.98           | 49.56       | 104.16                | -44.33                            | 7,023.37   | 7,063.26             | 7,001.73              | 61.53                   | 114.791           |                    |         |
| 3,500.00                    | 3,484.74            | 3,402.94            | 3,402.94            | 12.35           | 51.02       | 104.32                | -44.33                            | 7,023.37   | 7,068.46             | 7,005.10              | 63.35                   | 111.572           |                    |         |
| 3,600.00                    | 3,582.58            | 3,500.78            | 3,500.78            | 12.72           | 52.48       | 104.48                | -44.33                            | 7,023.37   | 7,073.71             | 7,008.53              | 65.18                   | 108.530           |                    |         |
| 3,700.00                    | 3,680.41            | 3,598.61            | 3,598.61            | 13.09           | 53.93       | 104.63                | -44.33                            | 7,023.37   | 7,079.02             | 7,012.02              | 67.00                   | 105.651           |                    |         |
| 3,800.00                    | 3,778.24            | 3,696.44            | 3,696.44            | 13.46           | 55.39       | 104.79                | -44.33                            | 7,023.37   | 7,084.39             | 7,015.56              | 68.83                   | 102.924           |                    |         |
| 3,900.00                    | 3,876.08            | 3,794.28            | 3,794.28            | 13.83           | 56.85       | 104.95                | -44.33                            | 7,023.37   | 7,089.81             | 7,019.15              | 70.66                   | 100.337           |                    |         |
| 4,000.00                    | 3,973.91            | 3,892.11            | 3,892.11            | 14.21           | 58.31       | 105.11                | -44.33                            | 7,023.37   | 7,095.30             | 7,022.81              | 72.49                   | 97.879            |                    |         |
| 4,100.00                    | 4,071.74            | 3,989.94            | 3,989.94            | 14.58           | 59.77       | 105.27                | -44.33                            | 7,023.37   | 7,100.83             | 7,026.51              | 74.32                   | 95.541            |                    |         |
| 4,200.00                    | 4,169.57            | 4,087.77            | 4,087.77            | 14.96           | 61.23       | 105.43                | -44.33                            | 7,023.37   | 7,106.43             | 7,030.27              | 76.15                   | 93.315            |                    |         |
| 4,300.00                    | 4,267.41            | 4,185.61            | 4,185.61            | 15.33           | 62.68       | 105.58                | -44.33                            | 7,023.37   | 7,112.07             | 7,034.09              | 77.99                   | 91.193            |                    |         |
| 4,400.00                    | 4,365.24            | 4,283.44            | 4,283.44            | 15.71           | 64.14       | 105.74                | -44.33                            | 7,023.37   | 7,117.78             | 7,037.96              | 79.82                   | 89.169            |                    |         |
| 4,500.00                    | 4,463.07            | 4,381.27            | 4,381.27            | 16.09           | 65.60       | 105.90                | -44.33                            | 7,023.37   | 7,123.54             | 7,041.88              | 81.66                   | 87.235            |                    |         |
| 4,600.00                    | 4,560.90            | 4,479.10            | 4,479.10            | 16.47           | 67.06       | 106.06                | -44.33                            | 7,023.37   | 7,129.36             | 7,045.86              | 83.50                   | 85.385            |                    |         |
| 4,700.00                    | 4,658.74            | 4,576.94            | 4,576.94            | 16.85           | 68.52       | 106.21                | -44.33                            | 7,023.37   | 7,135.23             | 7,049.89              | 85.33                   | 83.616            |                    |         |
| 4,800.00                    | 4,756.57            | 4,674.77            | 4,674.77            | 17.23           | 69.98       | 106.37                | -44.33                            | 7,023.37   | 7,141.15             | 7,053.98              | 87.17                   | 81.920            |                    |         |
| 4,900.00                    | 4,854.40            | 4,772.60            | 4,772.60            | 17.61           | 71.44       | 106.52                | -44.33                            | 7,023.37   | 7,147.14             | 7,058.12              | 89.01                   | 80.295            |                    |         |
| 5,000.00                    | 4,952.23            | 4,870.43            | 4,870.43            | 17.99           | 72.90       | 106.68                | -44.33                            | 7,023.37   | 7,153.17             | 7,062.32              | 90.85                   | 78.736            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree State #001 - Wellbore #1 - Wellbore #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Site Error:</b> | 5.00 ft |
|------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 10-INC-ONLY                                                              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                           | Warning |
| Measured Depth (ft)                                                                      | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor         |         |
| 5,100.00                                                                                 | 5,050.07            | 4,968.27            | 4,968.27            | 18.37           | 74.36       | 106.84                | -44.33                            | 7,023.37   | 7,159.26             | 7,066.57              | 92.69                   | 77.238                    |         |
| 5,200.00                                                                                 | 5,147.90            | 5,066.10            | 5,066.10            | 18.75           | 75.83       | 106.99                | -44.33                            | 7,023.37   | 7,165.41             | 7,070.88              | 94.53                   | 75.799                    |         |
| 5,300.00                                                                                 | 5,245.73            | 5,163.93            | 5,163.93            | 19.14           | 77.29       | 107.15                | -44.33                            | 7,023.37   | 7,171.61             | 7,075.24              | 96.37                   | 74.415                    |         |
| 5,400.00                                                                                 | 5,343.56            | 5,261.76            | 5,261.76            | 19.52           | 78.75       | 107.30                | -44.33                            | 7,023.37   | 7,177.86             | 7,079.65              | 98.21                   | 73.084                    |         |
| 5,500.00                                                                                 | 5,441.40            | 5,359.60            | 5,359.60            | 19.90           | 80.21       | 107.46                | -44.33                            | 7,023.37   | 7,184.17             | 7,084.12              | 100.06                  | 71.801                    |         |
| 5,600.00                                                                                 | 5,539.23            | 5,457.43            | 5,457.43            | 20.29           | 81.67       | 107.61                | -44.33                            | 7,023.37   | 7,190.54             | 7,088.64              | 101.90                  | 70.565                    |         |
| 5,700.00                                                                                 | 5,637.06            | 5,555.26            | 5,555.26            | 20.67           | 83.13       | 107.76                | -44.33                            | 7,023.37   | 7,196.95             | 7,093.21              | 103.74                  | 69.373                    |         |
| 5,800.00                                                                                 | 5,734.90            | 5,653.10            | 5,653.10            | 21.05           | 84.59       | 107.92                | -44.33                            | 7,023.37   | 7,203.42             | 7,097.84              | 105.59                  | 68.223                    |         |
| 5,900.00                                                                                 | 5,832.73            | 5,750.93            | 5,750.93            | 21.44           | 86.05       | 108.07                | -44.33                            | 7,023.37   | 7,209.95             | 7,102.52              | 107.43                  | 67.113                    |         |
| 6,000.00                                                                                 | 5,930.56            | 5,848.76            | 5,848.76            | 21.83           | 87.51       | 108.22                | -44.33                            | 7,023.37   | 7,216.53             | 7,107.25              | 109.27                  | 66.041                    |         |
| 6,100.00                                                                                 | 6,028.39            | 5,946.59            | 5,946.59            | 22.21           | 88.98       | 108.38                | -44.33                            | 7,023.37   | 7,223.16             | 7,112.04              | 111.12                  | 65.004                    |         |
| 6,200.00                                                                                 | 6,126.23            | 6,044.43            | 6,044.43            | 22.60           | 90.44       | 108.53                | -44.33                            | 7,023.37   | 7,229.84             | 7,116.88              | 112.96                  | 64.002                    |         |
| 6,300.00                                                                                 | 6,224.06            | 6,142.26            | 6,142.26            | 22.98           | 91.90       | 108.68                | -44.33                            | 7,023.37   | 7,236.58             | 7,121.77              | 114.81                  | 63.032                    |         |
| 6,400.00                                                                                 | 6,321.89            | 6,240.09            | 6,240.09            | 23.37           | 93.36       | 108.83                | -44.33                            | 7,023.37   | 7,243.37             | 7,126.72              | 116.65                  | 62.093                    |         |
| 6,500.00                                                                                 | 6,419.72            | 6,337.92            | 6,337.92            | 23.76           | 94.82       | 108.99                | -44.33                            | 7,023.37   | 7,250.21             | 7,131.72              | 118.50                  | 61.184                    |         |
| 6,600.00                                                                                 | 6,517.56            | 6,435.76            | 6,435.76            | 24.14           | 96.29       | 109.14                | -44.33                            | 7,023.37   | 7,257.11             | 7,136.77              | 120.34                  | 60.303                    |         |
| 6,700.00                                                                                 | 6,615.39            | 6,533.59            | 6,533.59            | 24.53           | 97.75       | 109.29                | -44.33                            | 7,023.37   | 7,264.06             | 7,141.87              | 122.19                  | 59.448                    |         |
| 6,800.00                                                                                 | 6,713.22            | 6,631.42            | 6,631.42            | 24.92           | 99.21       | 109.44                | -44.33                            | 7,023.37   | 7,271.06             | 7,147.02              | 124.04                  | 58.620                    |         |
| 6,900.00                                                                                 | 6,811.05            | 6,729.25            | 6,729.25            | 25.30           | 100.67      | 109.59                | -44.33                            | 7,023.37   | 7,278.11             | 7,152.23              | 125.88                  | 57.816                    |         |
| 7,000.00                                                                                 | 6,908.89            | 6,827.09            | 6,827.09            | 25.69           | 102.13      | 109.74                | -44.33                            | 7,023.37   | 7,285.22             | 7,157.49              | 127.73                  | 57.036                    |         |
| 7,100.00                                                                                 | 7,006.72            | 6,924.92            | 6,924.92            | 26.08           | 103.60      | 109.89                | -44.33                            | 7,023.37   | 7,292.38             | 7,162.80              | 129.58                  | 56.278                    |         |
| 7,200.00                                                                                 | 7,104.55            | 7,022.75            | 7,022.75            | 26.47           | 105.06      | 110.04                | -44.33                            | 7,023.37   | 7,299.58             | 7,168.16              | 131.42                  | 55.542                    |         |
| 7,216.87                                                                                 | 7,121.05            | 7,039.25            | 7,039.25            | 26.53           | 105.30      | 110.07                | -44.33                            | 7,023.37   | 7,300.81             | 7,169.07              | 131.74                  | 55.420                    |         |
| 7,300.00                                                                                 | 7,202.57            | 7,120.77            | 7,120.77            | 26.85           | 106.52      | 110.27                | -44.33                            | 7,023.37   | 7,306.53             | 7,173.26              | 133.27                  | 54.824                    |         |
| 7,400.00                                                                                 | 7,301.06            | 7,219.26            | 7,219.26            | 27.23           | 107.99      | 110.48                | -44.33                            | 7,023.37   | 7,312.63             | 7,177.51              | 135.12                  | 54.118                    |         |
| 7,500.00                                                                                 | 7,399.97            | 7,318.17            | 7,318.17            | 27.61           | 109.47      | 110.66                | -44.33                            | 7,023.37   | 7,317.85             | 7,180.87              | 136.97                  | 53.425                    |         |
| 7,600.00                                                                                 | 7,499.23            | 7,417.43            | 7,417.43            | 27.98           | 110.96      | 110.81                | -44.33                            | 7,023.37   | 7,322.16             | 7,183.33              | 138.83                  | 52.744                    |         |
| 7,700.00                                                                                 | 7,598.77            | 7,516.97            | 7,516.97            | 28.34           | 112.45      | 110.92                | -44.33                            | 7,023.37   | 7,325.56             | 7,184.88              | 140.67                  | 52.074                    |         |
| 7,800.00                                                                                 | 7,698.53            | 7,616.73            | 7,616.73            | 28.70           | 113.94      | 111.01                | -44.33                            | 7,023.37   | 7,328.03             | 7,185.51              | 142.52                  | 51.417                    |         |
| 7,900.00                                                                                 | 7,798.44            | 7,716.64            | 7,716.64            | 29.05           | 115.43      | 111.06                | -44.33                            | 7,023.37   | 7,329.57             | 7,185.20              | 144.36                  | 50.771                    |         |
| 8,000.00                                                                                 | 7,898.42            | 7,816.62            | 7,816.62            | 29.39           | 116.92      | 111.08                | -44.33                            | 7,023.37   | 7,330.17             | 7,183.96              | 146.20                  | 50.137                    |         |
| 8,013.58                                                                                 | 7,912.00            | 7,830.20            | 7,830.20            | 29.43           | 117.13      | 98.30                 | -44.33                            | 7,023.37   | 7,330.17             | 7,183.72              | 146.45                  | 50.052                    |         |
| 8,100.00                                                                                 | 7,998.42            | 7,916.62            | 7,916.62            | 29.73           | 118.42      | 98.30                 | -44.33                            | 7,023.37   | 7,330.17             | 7,182.14              | 148.04                  | 49.516                    |         |
| 8,200.00                                                                                 | 8,098.42            | 8,016.62            | 8,016.62            | 30.07           | 119.91      | 98.30                 | -44.33                            | 7,023.37   | 7,330.17             | 7,180.30              | 149.87                  | 48.910                    |         |
| 8,300.00                                                                                 | 8,198.42            | 8,116.62            | 8,116.62            | 30.41           | 121.41      | 98.30                 | -44.33                            | 7,023.37   | 7,330.17             | 7,178.47              | 151.71                  | 48.318                    |         |
| 8,363.62                                                                                 | 8,262.04            | 8,180.24            | 8,180.24            | 30.62           | 122.36      | 98.30                 | -44.33                            | 7,023.37   | 7,330.17             | 7,177.30              | 152.87                  | 47.949                    |         |
| 8,400.00                                                                                 | 8,298.40            | 8,216.60            | 8,216.60            | 30.75           | 122.90      | 8.66                  | -44.33                            | 7,023.37   | 7,329.03             | 7,175.49              | 153.54                  | 47.734                    |         |
| 8,450.00                                                                                 | 8,348.10            | 8,266.30            | 8,266.30            | 30.91           | 123.65      | 8.75                  | -44.33                            | 7,023.37   | 7,323.75             | 7,169.31              | 154.44                  | 47.421                    |         |
| 8,500.00                                                                                 | 8,397.14            | 8,315.34            | 8,315.34            | 31.07           | 124.38      | 8.91                  | -44.33                            | 7,023.37   | 7,314.20             | 7,158.88              | 155.33                  | 47.089                    |         |
| 8,550.00                                                                                 | 8,445.15            | 8,363.35            | 8,363.35            | 31.23           | 125.10      | 9.15                  | -44.33                            | 7,023.37   | 7,300.47             | 7,144.28              | 156.19                  | 46.741                    |         |
| 8,600.00                                                                                 | 8,491.77            | 8,409.97            | 8,409.97            | 31.38           | 125.80      | 9.48                  | -44.33                            | 7,023.37   | 7,282.65             | 7,125.62              | 157.03                  | 46.379                    |         |
| 8,650.00                                                                                 | 8,536.65            | 8,454.85            | 8,454.85            | 31.52           | 126.47      | 9.92                  | -44.33                            | 7,023.37   | 7,260.88             | 7,103.06              | 157.82                  | 46.006                    |         |
| 8,700.00                                                                                 | 8,579.43            | 8,497.63            | 8,497.63            | 31.66           | 127.11      | 10.48                 | -44.33                            | 7,023.37   | 7,235.34             | 7,076.76              | 158.58                  | 45.626                    |         |
| 8,750.00                                                                                 | 8,619.80            | 8,538.00            | 8,538.00            | 31.80           | 127.71      | 11.20                 | -44.33                            | 7,023.37   | 7,206.21             | 7,046.92              | 159.29                  | 45.240                    |         |
| 8,800.00                                                                                 | 8,657.44            | 8,575.64            | 8,575.64            | 31.93           | 128.27      | 12.12                 | -44.33                            | 7,023.37   | 7,173.71             | 7,013.77              | 159.94                  | 44.852                    |         |
| 8,850.00                                                                                 | 8,692.08            | 8,610.28            | 8,610.28            | 32.06           | 128.79      | 13.30                 | -44.33                            | 7,023.37   | 7,138.10             | 6,977.56              | 160.54                  | 44.463                    |         |
| 8,900.00                                                                                 | 8,723.44            | 8,641.64            | 8,641.64            | 32.19           | 129.26      | 14.84                 | -44.33                            | 7,023.37   | 7,099.65             | 6,938.57              | 161.08                  | 44.076                    |         |
| 8,950.00                                                                                 | 8,751.29            | 8,669.49            | 8,669.49            | 32.34           | 129.68      | 16.89                 | -44.33                            | 7,023.37   | 7,058.65             | 6,897.10              | 161.55                  | 43.693                    |         |
| 9,000.00                                                                                 | 8,775.42            | 8,693.62            | 8,693.62            | 32.50           | 130.04      | 19.70                 | -44.33                            | 7,023.37   | 7,015.41             | 6,853.45              | 161.96                  | 43.316                    |         |
| 9,050.00                                                                                 | 8,795.64            | 8,713.84            | 8,713.84            | 32.67           | 130.34      | 23.72                 | -44.33                            | 7,023.37   | 6,970.27             | 6,807.97              | 162.30                  | 42.948                    |         |
| 9,100.00                                                                                 | 8,811.80            | 8,730.00            | 8,730.00            | 32.87           | 130.58      | 29.77                 | -44.33                            | 7,023.37   | 6,923.57             | 6,761.00              | 162.57                  | 42.589                    |         |
| 9,150.00                                                                                 | 8,823.77            | 8,741.97            | 8,741.97            | 33.10           | 130.76      | 39.48                 | -44.33                            | 7,023.37   | 6,875.66             | 6,712.89              | 162.77                  | 42.242                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,200.00                    | 8,831.47            | 8,749.67            | 8,749.67            | 33.34           | 130.88      | 55.87                 | -44.33                            | 7,023.37   | 6,826.92             | 6,664.02              | 162.90                  | 41.908            |                    |         |
| 9,250.00                    | 8,834.84            | 8,753.04            | 8,753.04            | 33.60           | 130.93      | 81.79                 | -44.33                            | 7,023.37   | 6,777.71             | 6,614.74              | 162.97                  | 41.589            |                    |         |
| 9,263.62                    | 8,835.00            | 8,753.20            | 8,753.20            | 33.67           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,764.27             | 6,601.29              | 162.98                  | 41.505            |                    |         |
| 9,300.00                    | 8,835.00            | 8,753.20            | 8,753.20            | 33.88           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,728.38             | 6,565.39              | 162.99                  | 41.281            |                    |         |
| 9,400.00                    | 8,835.00            | 8,753.20            | 8,753.20            | 34.53           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,629.75             | 6,466.72              | 163.02                  | 40.667            |                    |         |
| 9,500.00                    | 8,835.00            | 8,753.20            | 8,753.20            | 35.30           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,531.16             | 6,368.09              | 163.06                  | 40.053            |                    |         |
| 9,600.00                    | 8,835.00            | 8,753.20            | 8,753.20            | 36.17           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,432.61             | 6,269.50              | 163.11                  | 39.437            |                    |         |
| 9,700.00                    | 8,835.00            | 8,753.20            | 8,753.20            | 37.13           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,334.11             | 6,170.95              | 163.17                  | 38.820            |                    |         |
| 9,800.00                    | 8,835.00            | 8,753.20            | 8,753.20            | 38.18           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,235.66             | 6,072.43              | 163.23                  | 38.202            |                    |         |
| 9,900.00                    | 8,835.00            | 8,753.20            | 8,753.20            | 39.31           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,137.26             | 5,973.96              | 163.30                  | 37.583            |                    |         |
| 10,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 40.51           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 6,038.91             | 5,875.53              | 163.38                  | 36.963            |                    |         |
| 10,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 41.78           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,940.62             | 5,777.15              | 163.47                  | 36.342            |                    |         |
| 10,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 43.10           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,842.38             | 5,678.82              | 163.56                  | 35.719            |                    |         |
| 10,300.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 44.49           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,744.20             | 5,580.53              | 163.67                  | 35.096            |                    |         |
| 10,400.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 45.92           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,646.09             | 5,482.30              | 163.79                  | 34.471            |                    |         |
| 10,500.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 47.39           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,548.05             | 5,384.13              | 163.92                  | 33.846            |                    |         |
| 10,600.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 48.91           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,450.07             | 5,286.01              | 164.07                  | 33.219            |                    |         |
| 10,700.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 50.47           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,352.18             | 5,187.95              | 164.23                  | 32.590            |                    |         |
| 10,800.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 52.06           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,254.36             | 5,089.96              | 164.40                  | 31.961            |                    |         |
| 10,900.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 53.68           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,156.62             | 4,992.03              | 164.59                  | 31.330            |                    |         |
| 11,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 55.32           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 5,058.98             | 4,894.18              | 164.80                  | 30.698            |                    |         |
| 11,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 57.00           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,961.42             | 4,796.40              | 165.02                  | 30.065            |                    |         |
| 11,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 58.70           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,863.97             | 4,698.70              | 165.27                  | 29.431            |                    |         |
| 11,300.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 60.41           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,766.62             | 4,601.08              | 165.54                  | 28.795            |                    |         |
| 11,400.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 62.15           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,669.38             | 4,503.56              | 165.83                  | 28.158            |                    |         |
| 11,500.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 63.91           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,572.27             | 4,406.12              | 166.15                  | 27.520            |                    |         |
| 11,600.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 65.69           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,475.28             | 4,308.79              | 166.49                  | 26.880            |                    |         |
| 11,700.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 67.47           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,378.42             | 4,211.56              | 166.86                  | 26.239            |                    |         |
| 11,800.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 69.28           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,281.71             | 4,114.44              | 167.27                  | 25.597            |                    |         |
| 11,900.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 71.09           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,185.16             | 4,017.45              | 167.71                  | 24.954            |                    |         |
| 12,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 72.92           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 4,088.77             | 3,920.58              | 168.19                  | 24.310            |                    |         |
| 12,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 74.76           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,992.56             | 3,823.85              | 168.71                  | 23.665            |                    |         |
| 12,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 76.61           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,896.54             | 3,727.26              | 169.28                  | 23.019            |                    |         |
| 12,300.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 78.47           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,800.72             | 3,630.83              | 169.89                  | 22.372            |                    |         |
| 12,400.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 80.34           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,705.13             | 3,534.57              | 170.55                  | 21.724            |                    |         |
| 12,500.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 82.22           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,609.77             | 3,438.50              | 171.28                  | 21.076            |                    |         |
| 12,600.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 84.11           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,514.67             | 3,342.61              | 172.06                  | 20.427            |                    |         |
| 12,700.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 86.00           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,419.85             | 3,246.95              | 172.91                  | 19.779            |                    |         |
| 12,800.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 87.90           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,325.34             | 3,151.51              | 173.83                  | 19.130            |                    |         |
| 12,900.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 89.81           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,231.16             | 3,056.33              | 174.83                  | 18.482            |                    |         |
| 13,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 91.72           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,137.33             | 2,961.42              | 175.91                  | 17.835            |                    |         |
| 13,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 93.64           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,043.90             | 2,866.81              | 177.09                  | 17.188            |                    |         |
| 13,200.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 95.56           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,950.90             | 2,772.53              | 178.37                  | 16.544            |                    |         |
| 13,300.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 97.49           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,858.37             | 2,678.61              | 179.76                  | 15.901            |                    |         |
| 13,400.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 99.42           | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,766.36             | 2,585.09              | 181.27                  | 15.261            |                    |         |
| 13,500.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 101.36          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,674.93             | 2,492.02              | 182.91                  | 14.624            |                    |         |
| 13,600.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 103.30          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,584.13             | 2,399.43              | 184.70                  | 13.991            |                    |         |
| 13,700.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 105.25          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,494.03             | 2,307.40              | 186.64                  | 13.363            |                    |         |
| 13,800.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 107.20          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,404.72             | 2,215.98              | 188.75                  | 12.741            |                    |         |
| 13,900.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 109.15          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,316.28             | 2,125.24              | 191.04                  | 12.125            |                    |         |
| 14,000.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 111.10          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,228.82             | 2,035.28              | 193.54                  | 11.516            |                    |         |
| 14,100.00                   | 8,835.00            | 8,753.20            | 8,753.20            | 113.06          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,142.46             | 1,946.21              | 196.25                  | 10.917            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree State #001 - Wellbore #1 - Wellbore #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 5.00 ft |
|------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY                                                              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                                                                |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                                                                      | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 14,200.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 115.03          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,057.33             | 1,858.12              | 199.21                  | 10.328            |                    |         |
| 14,300.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 116.99          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,973.60             | 1,771.18              | 202.42                  | 9.750             |                    |         |
| 14,400.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 118.96          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,891.45             | 1,685.54              | 205.90                  | 9.186             |                    |         |
| 14,500.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 120.93          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,811.09             | 1,601.41              | 209.68                  | 8.637             |                    |         |
| 14,600.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 122.90          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,732.78             | 1,519.01              | 213.77                  | 8.106             |                    |         |
| 14,700.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 124.88          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,656.81             | 1,438.62              | 218.19                  | 7.593             |                    |         |
| 14,800.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 126.86          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,583.51             | 1,360.57              | 222.93                  | 7.103             |                    |         |
| 14,900.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 128.84          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,513.27             | 1,285.26              | 228.01                  | 6.637             |                    |         |
| 15,000.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 130.82          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,446.53             | 1,213.14              | 233.39                  | 6.198             |                    |         |
| 15,100.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 132.80          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,383.81             | 1,144.77              | 239.04                  | 5.789             |                    |         |
| 15,200.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 134.79          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,325.68             | 1,080.77              | 244.91                  | 5.413             |                    |         |
| 15,300.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 136.78          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,272.75             | 1,021.87              | 250.88                  | 5.073             |                    |         |
| 15,400.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 138.76          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,225.72             | 968.87                | 256.84                  | 4.772             | Alert              |         |
| 15,500.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 140.76          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,185.27             | 922.65                | 262.61                  | 4.513             | Alert              |         |
| 15,600.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 142.75          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,152.10             | 884.11                | 267.99                  | 4.299             | Alert              |         |
| 15,700.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 144.74          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,126.86             | 854.11                | 272.75                  | 4.131             | Alert              |         |
| 15,800.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 146.74          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,110.09             | 833.41                | 276.69                  | 4.012             | Alert              |         |
| 15,900.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 148.73          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,102.17             | 822.57                | 279.60                  | 3.942             | Alert              |         |
| 15,937.60                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 149.48          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,101.53             | 821.12                | 280.41                  | 3.928             | Alert, CC, ES      |         |
| 16,000.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 150.73          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,103.30             | 821.91                | 281.39                  | 3.921             | Alert, SF          |         |
| 16,100.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 152.73          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,113.44             | 831.44                | 282.00                  | 3.948             | Alert              |         |
| 16,200.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 154.73          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,132.35             | 850.87                | 281.48                  | 4.023             | Alert              |         |
| 16,300.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 156.73          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,159.61             | 879.65                | 279.97                  | 4.142             | Alert              |         |
| 16,400.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 158.74          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,194.65             | 917.04                | 277.61                  | 4.303             | Alert              |         |
| 16,500.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 160.74          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,236.80             | 962.18                | 274.61                  | 4.504             | Alert              |         |
| 16,600.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 162.74          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,285.36             | 1,014.20              | 271.16                  | 4.740             | Alert              |         |
| 16,700.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 164.75          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,339.64             | 1,072.22              | 267.41                  | 5.010             |                    |         |
| 16,800.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 166.76          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,398.97             | 1,135.44              | 263.52                  | 5.309             |                    |         |
| 16,900.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 168.77          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,462.73             | 1,203.14              | 259.60                  | 5.635             |                    |         |
| 17,000.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 170.77          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,530.38             | 1,274.67              | 255.72                  | 5.985             |                    |         |
| 17,100.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 172.78          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,601.42             | 1,349.48              | 251.94                  | 6.356             |                    |         |
| 17,200.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 174.79          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,675.42             | 1,427.11              | 248.31                  | 6.747             |                    |         |
| 17,300.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 176.81          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,752.00             | 1,507.15              | 244.85                  | 7.155             |                    |         |
| 17,400.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 178.82          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,830.84             | 1,589.27              | 241.57                  | 7.579             |                    |         |
| 17,500.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 180.83          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,911.67             | 1,673.19              | 238.47                  | 8.016             |                    |         |
| 17,600.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 182.84          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 1,994.23             | 1,758.67              | 235.56                  | 8.466             |                    |         |
| 17,700.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 184.86          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,078.33             | 1,845.50              | 232.83                  | 8.926             |                    |         |
| 17,800.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 186.87          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,163.77             | 1,933.51              | 230.27                  | 9.397             |                    |         |
| 17,900.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 188.89          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,250.42             | 2,022.56              | 227.87                  | 9.876             |                    |         |
| 18,000.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 190.91          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,338.14             | 2,112.52              | 225.62                  | 10.363            |                    |         |
| 18,100.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 192.92          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,426.80             | 2,203.28              | 223.52                  | 10.857            |                    |         |
| 18,200.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 194.94          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,516.31             | 2,294.77              | 221.55                  | 11.358            |                    |         |
| 18,300.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 196.96          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,606.59             | 2,386.89              | 219.70                  | 11.864            |                    |         |
| 18,400.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 198.98          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,697.55             | 2,479.58              | 217.97                  | 12.376            |                    |         |
| 18,500.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 201.00          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,789.14             | 2,572.78              | 216.35                  | 12.892            |                    |         |
| 18,600.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 203.02          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,881.28             | 2,666.44              | 214.83                  | 13.412            |                    |         |
| 18,700.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 205.04          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 2,973.93             | 2,760.52              | 213.41                  | 13.936            |                    |         |
| 18,800.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 207.06          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,067.04             | 2,854.97              | 212.06                  | 14.463            |                    |         |
| 18,900.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 209.08          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,160.57             | 2,949.77              | 210.80                  | 14.993            |                    |         |
| 19,000.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 211.10          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,254.49             | 3,044.87              | 209.61                  | 15.526            |                    |         |
| 19,100.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 213.12          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,348.76             | 3,140.26              | 208.49                  | 16.062            |                    |         |
| 19,200.00                                                                                | 8,835.00            | 8,753.20            | 8,753.20            | 215.15          | 130.93      | 90.00                 | -44.33                            | 7,023.37   | 3,443.35             | 3,235.91              | 207.44                  | 16.599            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 13-T21S-R27E - Lone Tree State #001 - Wellbore #1 - Wellbore #1 |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 5.00 ft |
|------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|---------|
| Survey Program: 10-INC-ONLY                                                              |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                | Offset                 | Semi Major Axis        |                        | Distance          |                |                             |                                         |               |                            |                             |                               |                           | Warning |
| Measured Depth<br>(ft)                                                                   | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |         |
| 19,308.27                                                                                | 8,835.00               | 8,753.20               | 8,753.20               | 217.34            | 130.93         | 90.00                       | -44.33                                  | 7,023.37      | 3,546.10                   | 3,339.73                    | 206.36                        | 17.184                    |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft  |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|----------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 10.00 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |          |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |          |
| 0.00                        | 0.00                | 0.00                | 0.00                | 0.50            | 10.00       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.50             |                       |                         |                   |                    |          |
| 100.00                      | 100.00              | 80.20               | 80.20               | 0.52            | 10.10       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,062.82              | 10.62                   | 289.452           |                    |          |
| 200.00                      | 200.00              | 180.20              | 180.20              | 0.70            | 10.58       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,062.16              | 11.28                   | 272.506           |                    |          |
| 300.00                      | 300.00              | 280.20              | 280.20              | 0.99            | 11.40       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,061.05              | 12.38                   | 248.175           |                    |          |
| 400.00                      | 400.00              | 380.20              | 380.20              | 1.31            | 12.49       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,059.63              | 13.80                   | 222.661           |                    |          |
| 500.00                      | 500.00              | 480.20              | 480.20              | 1.65            | 13.80       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,057.99              | 15.45                   | 198.947           |                    |          |
| 600.00                      | 600.00              | 580.20              | 580.20              | 1.99            | 15.27       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,056.18              | 17.26                   | 178.087           |                    |          |
| 700.00                      | 700.00              | 680.20              | 680.20              | 2.34            | 16.85       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,054.25              | 19.19                   | 160.176           |                    |          |
| 800.00                      | 800.00              | 780.20              | 780.20              | 2.69            | 18.52       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,052.23              | 21.21                   | 144.929           |                    |          |
| 900.00                      | 900.00              | 880.20              | 880.20              | 3.04            | 20.25       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,050.14              | 23.29                   | 131.954           |                    |          |
| 1,000.00                    | 1,000.00            | 980.20              | 980.20              | 3.40            | 22.03       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,048.01              | 25.43                   | 120.869           |                    |          |
| 1,100.00                    | 1,100.00            | 1,080.20            | 1,080.20            | 3.75            | 23.85       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,045.83              | 27.60                   | 111.343           |                    |          |
| 1,200.00                    | 1,200.00            | 1,180.20            | 1,180.20            | 4.11            | 25.70       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,043.62              | 29.81                   | 103.102           |                    |          |
| 1,300.00                    | 1,300.00            | 1,280.20            | 1,280.20            | 4.46            | 27.58       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,041.39              | 32.04                   | 95.922            |                    |          |
| 1,400.00                    | 1,400.00            | 1,380.20            | 1,380.20            | 4.82            | 29.47       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,039.14              | 34.29                   | 89.626            |                    |          |
| 1,500.00                    | 1,500.00            | 1,480.20            | 1,480.20            | 5.18            | 31.38       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,036.87              | 36.56                   | 84.067            |                    |          |
| 1,600.00                    | 1,600.00            | 1,580.20            | 1,580.20            | 5.53            | 33.31       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,034.59              | 38.84                   | 79.130            |                    |          |
| 1,700.00                    | 1,700.00            | 1,680.20            | 1,680.20            | 5.89            | 35.24       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,032.30              | 41.13                   | 74.720            |                    |          |
| 1,800.00                    | 1,800.00            | 1,780.20            | 1,780.20            | 6.25            | 37.19       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,030.00              | 43.43                   | 70.760            |                    |          |
| 1,900.00                    | 1,900.00            | 1,880.20            | 1,880.20            | 6.61            | 39.14       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,027.69              | 45.74                   | 67.187            |                    |          |
| 2,000.00                    | 2,000.00            | 1,980.20            | 1,980.20            | 6.96            | 41.10       | 33.37                 | 2,566.83                          | 1,690.39   | 3,073.43             | 3,025.37              | 48.06                   | 63.948            |                    |          |
| 2,100.00                    | 2,099.99            | 2,080.19            | 2,080.19            | 7.32            | 43.06       | 46.16                 | 2,566.83                          | 1,690.39   | 3,072.83             | 3,022.45              | 50.38                   | 60.989            |                    |          |
| 2,200.00                    | 2,199.96            | 2,180.16            | 2,180.16            | 7.68            | 45.03       | 46.21                 | 2,566.83                          | 1,690.39   | 3,071.02             | 3,018.31              | 52.71                   | 58.262            |                    |          |
| 2,300.00                    | 2,299.86            | 2,280.06            | 2,280.06            | 8.04            | 47.01       | 46.29                 | 2,566.83                          | 1,690.39   | 3,068.00             | 3,012.96              | 55.04                   | 55.741            |                    |          |
| 2,400.00                    | 2,399.68            | 2,379.88            | 2,379.88            | 8.39            | 48.98       | 46.40                 | 2,566.83                          | 1,690.39   | 3,063.78             | 3,006.41              | 57.37                   | 53.401            |                    |          |
| 2,500.00                    | 2,499.37            | 2,479.57            | 2,479.57            | 8.75            | 50.96       | 46.55                 | 2,566.83                          | 1,690.39   | 3,058.37             | 2,998.66              | 59.71                   | 51.224            |                    |          |
| 2,600.00                    | 2,598.90            | 2,579.10            | 2,579.10            | 9.11            | 52.93       | 46.73                 | 2,566.83                          | 1,690.39   | 3,051.77             | 2,989.73              | 62.04                   | 49.191            |                    |          |
| 2,700.00                    | 2,698.26            | 2,678.46            | 2,678.46            | 9.46            | 54.91       | 46.94                 | 2,566.83                          | 1,690.39   | 3,044.00             | 2,979.63              | 64.37                   | 47.288            |                    |          |
| 2,800.00                    | 2,797.40            | 2,777.60            | 2,777.60            | 9.82            | 56.88       | 47.19                 | 2,566.83                          | 1,690.39   | 3,035.07             | 2,968.37              | 66.70                   | 45.502            |                    |          |
| 2,900.00                    | 2,896.30            | 2,876.50            | 2,876.50            | 10.18           | 58.85       | 47.46                 | 2,566.83                          | 1,690.39   | 3,024.99             | 2,955.96              | 69.03                   | 43.821            |                    |          |
| 3,000.00                    | 2,994.93            | 2,975.13            | 2,975.13            | 10.54           | 60.82       | 47.78                 | 2,566.83                          | 1,690.39   | 3,013.78             | 2,942.42              | 71.36                   | 42.235            |                    |          |
| 3,100.00                    | 3,093.26            | 3,073.46            | 3,073.46            | 10.90           | 62.78       | 48.12                 | 2,566.83                          | 1,690.39   | 3,001.46             | 2,927.78              | 73.68                   | 40.736            |                    |          |
| 3,195.07                    | 3,186.42            | 3,166.62            | 3,166.62            | 11.24           | 64.65       | 48.49                 | 2,566.83                          | 1,690.39   | 2,988.74             | 2,912.86              | 75.88                   | 39.385            |                    |          |
| 3,200.00                    | 3,191.25            | 3,171.45            | 3,171.45            | 11.26           | 64.74       | 48.50                 | 2,566.83                          | 1,690.39   | 2,988.06             | 2,912.06              | 76.00                   | 39.317            |                    |          |
| 3,300.00                    | 3,289.08            | 3,269.28            | 3,269.28            | 11.62           | 66.70       | 48.80                 | 2,566.83                          | 1,690.39   | 2,974.21             | 2,895.89              | 78.32                   | 37.976            |                    |          |
| 3,400.00                    | 3,386.91            | 3,367.11            | 3,367.11            | 11.98           | 68.66       | 49.10                 | 2,566.83                          | 1,690.39   | 2,960.44             | 2,879.80              | 80.64                   | 36.713            |                    |          |
| 3,500.00                    | 3,484.74            | 3,464.94            | 3,464.94            | 12.35           | 70.62       | 49.40                 | 2,566.83                          | 1,690.39   | 2,946.75             | 2,863.79              | 82.96                   | 35.519            |                    |          |
| 3,600.00                    | 3,582.58            | 3,562.78            | 3,562.78            | 12.72           | 72.58       | 49.70                 | 2,566.83                          | 1,690.39   | 2,933.15             | 2,847.86              | 85.29                   | 34.391            |                    |          |
| 3,700.00                    | 3,680.41            | 3,660.61            | 3,660.61            | 13.09           | 74.54       | 50.00                 | 2,566.83                          | 1,690.39   | 2,919.63             | 2,832.01              | 87.62                   | 33.322            |                    |          |
| 3,800.00                    | 3,778.24            | 3,758.44            | 3,758.44            | 13.46           | 76.50       | 50.31                 | 2,566.83                          | 1,690.39   | 2,906.19             | 2,816.24              | 89.95                   | 32.309            |                    |          |
| 3,900.00                    | 3,876.08            | 3,856.28            | 3,856.28            | 13.83           | 78.46       | 50.63                 | 2,566.83                          | 1,690.39   | 2,892.84             | 2,800.56              | 92.28                   | 31.348            |                    |          |
| 4,000.00                    | 3,973.91            | 3,954.11            | 3,954.11            | 14.21           | 80.43       | 50.94                 | 2,566.83                          | 1,690.39   | 2,879.57             | 2,784.96              | 94.62                   | 30.434            |                    |          |
| 4,100.00                    | 4,071.74            | 4,051.94            | 4,051.94            | 14.58           | 82.39       | 51.26                 | 2,566.83                          | 1,690.39   | 2,866.40             | 2,769.44              | 96.95                   | 29.565            |                    |          |
| 4,200.00                    | 4,169.57            | 4,149.77            | 4,149.77            | 14.96           | 84.35       | 51.58                 | 2,566.83                          | 1,690.39   | 2,853.31             | 2,754.02              | 99.29                   | 28.736            |                    |          |
| 4,300.00                    | 4,267.41            | 4,247.61            | 4,247.61            | 15.33           | 86.32       | 51.90                 | 2,566.83                          | 1,690.39   | 2,840.31             | 2,738.68              | 101.63                  | 27.947            |                    |          |
| 4,400.00                    | 4,365.24            | 4,345.44            | 4,345.44            | 15.71           | 88.29       | 52.23                 | 2,566.83                          | 1,690.39   | 2,827.41             | 2,723.44              | 103.97                  | 27.193            |                    |          |
| 4,500.00                    | 4,463.07            | 4,443.27            | 4,443.27            | 16.09           | 90.25       | 52.55                 | 2,566.83                          | 1,690.39   | 2,814.60             | 2,708.28              | 106.32                  | 26.474            |                    |          |
| 4,600.00                    | 4,560.90            | 4,541.10            | 4,541.10            | 16.47           | 92.22       | 52.89                 | 2,566.83                          | 1,690.39   | 2,801.88             | 2,693.22              | 108.66                  | 25.785            |                    |          |
| 4,700.00                    | 4,658.74            | 4,638.94            | 4,638.94            | 16.85           | 94.19       | 53.22                 | 2,566.83                          | 1,690.39   | 2,789.26             | 2,678.26              | 111.01                  | 25.127            |                    |          |
| 4,800.00                    | 4,756.57            | 4,736.77            | 4,736.77            | 17.23           | 96.16       | 53.56                 | 2,566.83                          | 1,690.39   | 2,776.74             | 2,663.39              | 113.35                  | 24.496            |                    |          |
| 4,900.00                    | 4,854.40            | 4,834.60            | 4,834.60            | 17.61           | 98.13       | 53.90                 | 2,566.83                          | 1,690.39   | 2,764.31             | 2,648.61              | 115.70                  | 23.892            |                    |          |
| 5,000.00                    | 4,952.23            | 4,932.43            | 4,932.43            | 17.99           | 100.10      | 54.24                 | 2,566.83                          | 1,690.39   | 2,751.99             | 2,633.94              | 118.05                  | 23.312            |                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft  |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|----------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 10.00 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |          |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |          |
| 5,100.00                    | 5,050.07            | 5,030.27            | 5,030.27            | 18.37           | 102.07      | 54.59                 | 2,566.83                          | 1,690.39   | 2,739.76             | 2,619.36              | 120.40                  | 22.755            |                    |          |
| 5,200.00                    | 5,147.90            | 5,128.10            | 5,128.10            | 18.75           | 104.04      | 54.94                 | 2,566.83                          | 1,690.39   | 2,727.64             | 2,604.89              | 122.75                  | 22.221            |                    |          |
| 5,300.00                    | 5,245.73            | 5,225.93            | 5,225.93            | 19.14           | 106.01      | 55.29                 | 2,566.83                          | 1,690.39   | 2,715.62             | 2,590.52              | 125.10                  | 21.707            |                    |          |
| 5,400.00                    | 5,343.56            | 5,323.76            | 5,323.76            | 19.52           | 107.98      | 55.64                 | 2,566.83                          | 1,690.39   | 2,703.71             | 2,576.26              | 127.46                  | 21.213            |                    |          |
| 5,500.00                    | 5,441.40            | 5,421.60            | 5,421.60            | 19.90           | 109.95      | 56.00                 | 2,566.83                          | 1,690.39   | 2,691.91             | 2,562.10              | 129.81                  | 20.737            |                    |          |
| 5,600.00                    | 5,539.23            | 5,519.43            | 5,519.43            | 20.29           | 111.92      | 56.36                 | 2,566.83                          | 1,690.39   | 2,680.21             | 2,548.04              | 132.16                  | 20.280            |                    |          |
| 5,700.00                    | 5,637.06            | 5,617.26            | 5,617.26            | 20.67           | 113.89      | 56.73                 | 2,566.83                          | 1,690.39   | 2,668.62             | 2,534.10              | 134.52                  | 19.838            |                    |          |
| 5,800.00                    | 5,734.90            | 5,715.10            | 5,715.10            | 21.05           | 115.86      | 57.10                 | 2,566.83                          | 1,690.39   | 2,657.14             | 2,520.27              | 136.87                  | 19.413            |                    |          |
| 5,900.00                    | 5,832.73            | 5,812.93            | 5,812.93            | 21.44           | 117.84      | 57.47                 | 2,566.83                          | 1,690.39   | 2,645.77             | 2,506.54              | 139.23                  | 19.003            |                    |          |
| 6,000.00                    | 5,930.56            | 5,910.76            | 5,910.76            | 21.83           | 119.81      | 57.84                 | 2,566.83                          | 1,690.39   | 2,634.52             | 2,492.94              | 141.59                  | 18.607            |                    |          |
| 6,100.00                    | 6,028.39            | 6,008.59            | 6,008.59            | 22.21           | 121.78      | 58.22                 | 2,566.83                          | 1,690.39   | 2,623.38             | 2,479.44              | 143.94                  | 18.225            |                    |          |
| 6,200.00                    | 6,126.23            | 6,106.43            | 6,106.43            | 22.60           | 123.75      | 58.60                 | 2,566.83                          | 1,690.39   | 2,612.36             | 2,466.06              | 146.30                  | 17.856            |                    |          |
| 6,300.00                    | 6,224.06            | 6,204.26            | 6,204.26            | 22.98           | 125.73      | 58.98                 | 2,566.83                          | 1,690.39   | 2,601.46             | 2,452.80              | 148.66                  | 17.499            |                    |          |
| 6,400.00                    | 6,321.89            | 6,302.09            | 6,302.09            | 23.37           | 127.70      | 59.37                 | 2,566.83                          | 1,690.39   | 2,590.68             | 2,439.66              | 151.02                  | 17.155            |                    |          |
| 6,500.00                    | 6,419.72            | 6,399.92            | 6,399.92            | 23.76           | 129.67      | 59.76                 | 2,566.83                          | 1,690.39   | 2,580.02             | 2,426.64              | 153.38                  | 16.821            |                    |          |
| 6,600.00                    | 6,517.56            | 6,497.76            | 6,497.76            | 24.14           | 131.65      | 60.15                 | 2,566.83                          | 1,690.39   | 2,569.48             | 2,413.74              | 155.74                  | 16.499            |                    |          |
| 6,700.00                    | 6,615.39            | 6,595.59            | 6,595.59            | 24.53           | 133.62      | 60.54                 | 2,566.83                          | 1,690.39   | 2,559.06             | 2,400.96              | 158.10                  | 16.186            |                    |          |
| 6,800.00                    | 6,713.22            | 6,693.42            | 6,693.42            | 24.92           | 135.60      | 60.94                 | 2,566.83                          | 1,690.39   | 2,548.77             | 2,388.31              | 160.46                  | 15.884            |                    |          |
| 6,900.00                    | 6,811.05            | 6,791.25            | 6,791.25            | 25.30           | 137.57      | 61.35                 | 2,566.83                          | 1,690.39   | 2,538.61             | 2,375.79              | 162.82                  | 15.591            |                    |          |
| 7,000.00                    | 6,908.89            | 6,889.09            | 6,889.09            | 25.69           | 139.54      | 61.75                 | 2,566.83                          | 1,690.39   | 2,528.58             | 2,363.40              | 165.18                  | 15.308            |                    |          |
| 7,100.00                    | 7,006.72            | 6,986.92            | 6,986.92            | 26.08           | 141.52      | 62.16                 | 2,566.83                          | 1,690.39   | 2,518.68             | 2,351.13              | 167.55                  | 15.033            |                    |          |
| 7,200.00                    | 7,104.55            | 7,084.75            | 7,084.75            | 26.47           | 143.49      | 62.57                 | 2,566.83                          | 1,690.39   | 2,508.91             | 2,339.00              | 169.91                  | 14.766            |                    |          |
| 7,216.87                    | 7,121.05            | 7,101.25            | 7,101.25            | 26.53           | 143.83      | 62.64                 | 2,566.83                          | 1,690.39   | 2,507.27             | 2,336.96              | 170.31                  | 14.722            |                    |          |
| 7,300.00                    | 7,202.57            | 7,182.77            | 7,182.77            | 26.85           | 145.47      | 62.86                 | 2,566.83                          | 1,690.39   | 2,499.68             | 2,327.40              | 172.27                  | 14.510            |                    |          |
| 7,400.00                    | 7,301.06            | 7,281.26            | 7,281.26            | 27.23           | 147.46      | 63.11                 | 2,566.83                          | 1,690.39   | 2,491.73             | 2,317.09              | 174.64                  | 14.267            |                    |          |
| 7,500.00                    | 7,399.97            | 7,380.17            | 7,380.17            | 27.61           | 149.46      | 63.22                 | 2,566.83                          | 1,690.39   | 2,485.05             | 2,308.03              | 177.02                  | 14.038            |                    |          |
| 7,600.00                    | 7,499.23            | 7,479.43            | 7,479.43            | 27.98           | 151.46      | 63.49                 | 2,566.83                          | 1,690.39   | 2,479.60             | 2,300.21              | 179.39                  | 13.822            |                    |          |
| 7,700.00                    | 7,598.77            | 7,578.97            | 7,578.97            | 28.34           | 153.47      | 63.63                 | 2,566.83                          | 1,690.39   | 2,475.35             | 2,293.58              | 181.76                  | 13.619            |                    |          |
| 7,800.00                    | 7,698.53            | 7,678.73            | 7,678.73            | 28.70           | 155.48      | 63.73                 | 2,566.83                          | 1,690.39   | 2,472.29             | 2,288.15              | 184.13                  | 13.427            |                    |          |
| 7,900.00                    | 7,798.44            | 7,778.64            | 7,778.64            | 29.05           | 157.50      | 63.80                 | 2,566.83                          | 1,690.39   | 2,470.39             | 2,283.89              | 186.50                  | 13.246            |                    |          |
| 8,000.00                    | 7,898.42            | 7,878.62            | 7,878.62            | 29.39           | 159.52      | 63.82                 | 2,566.83                          | 1,690.39   | 2,469.66             | 2,280.79              | 188.87                  | 13.076            |                    |          |
| 8,013.58                    | 7,912.00            | 7,892.20            | 7,892.20            | 29.43           | 159.79      | 51.04                 | 2,566.83                          | 1,690.39   | 2,469.65             | 2,280.46              | 189.19                  | 13.054            |                    |          |
| 8,100.00                    | 7,998.42            | 7,978.62            | 7,978.62            | 29.73           | 161.54      | 51.04                 | 2,566.83                          | 1,690.39   | 2,469.65             | 2,278.42              | 191.22                  | 12.915            |                    |          |
| 8,200.00                    | 8,098.42            | 8,078.62            | 8,078.62            | 30.07           | 163.56      | 51.04                 | 2,566.83                          | 1,690.39   | 2,469.65             | 2,276.06              | 193.58                  | 12.757            |                    |          |
| 8,300.00                    | 8,198.42            | 8,178.62            | 8,178.62            | 30.41           | 165.58      | 51.04                 | 2,566.83                          | 1,690.39   | 2,469.65             | 2,273.70              | 195.95                  | 12.604            |                    |          |
| 8,363.62                    | 8,262.04            | 8,242.24            | 8,242.24            | 30.62           | 166.86      | 51.04                 | 2,566.83                          | 1,690.39   | 2,469.65             | 2,272.20              | 197.45                  | 12.508            |                    |          |
| 8,400.00                    | 8,298.40            | 8,278.60            | 8,278.60            | 30.75           | 167.60      | -38.69                | 2,566.83                          | 1,690.39   | 2,468.74             | 2,270.44              | 198.30                  | 12.449            |                    |          |
| 8,450.00                    | 8,348.10            | 8,328.30            | 8,328.30            | 30.91           | 168.60      | -39.03                | 2,566.83                          | 1,690.39   | 2,464.57             | 2,265.10              | 199.47                  | 12.356            |                    |          |
| 8,500.00                    | 8,397.14            | 8,377.34            | 8,377.34            | 31.07           | 169.59      | -39.66                | 2,566.83                          | 1,690.39   | 2,457.04             | 2,256.42              | 200.62                  | 12.247            |                    |          |
| 8,550.00                    | 8,445.15            | 8,425.35            | 8,425.35            | 31.23           | 170.56      | -40.57                | 2,566.83                          | 1,690.39   | 2,446.24             | 2,244.49              | 201.75                  | 12.125            |                    |          |
| 8,600.00                    | 8,491.77            | 8,471.97            | 8,471.97            | 31.38           | 171.50      | -41.80                | 2,566.83                          | 1,690.39   | 2,432.27             | 2,229.42              | 202.85                  | 11.990            |                    |          |
| 8,650.00                    | 8,536.65            | 8,516.85            | 8,516.85            | 31.52           | 172.41      | -43.36                | 2,566.83                          | 1,690.39   | 2,415.28             | 2,211.37              | 203.91                  | 11.845            |                    |          |
| 8,700.00                    | 8,579.43            | 8,559.63            | 8,559.63            | 31.66           | 173.27      | -45.28                | 2,566.83                          | 1,690.39   | 2,395.43             | 2,190.51              | 204.92                  | 11.690            |                    |          |
| 8,750.00                    | 8,619.80            | 8,600.00            | 8,600.00            | 31.80           | 174.09      | -47.56                | 2,566.83                          | 1,690.39   | 2,372.94             | 2,167.07              | 205.88                  | 11.526            |                    |          |
| 8,800.00                    | 8,657.44            | 8,637.64            | 8,637.64            | 31.93           | 174.85      | -50.25                | 2,566.83                          | 1,690.39   | 2,348.04             | 2,141.27              | 206.77                  | 11.356            |                    |          |
| 8,850.00                    | 8,692.08            | 8,672.28            | 8,672.28            | 32.06           | 175.55      | -53.35                | 2,566.83                          | 1,690.39   | 2,320.97             | 2,113.37              | 207.60                  | 11.180            |                    |          |
| 8,900.00                    | 8,723.44            | 8,703.64            | 8,703.64            | 32.19           | 176.18      | -56.88                | 2,566.83                          | 1,690.39   | 2,292.02             | 2,083.65              | 208.37                  | 11.000            |                    |          |
| 8,950.00                    | 8,751.29            | 8,731.49            | 8,731.49            | 32.34           | 176.75      | -60.81                | 2,566.83                          | 1,690.39   | 2,261.47             | 2,052.42              | 209.06                  | 10.818            |                    |          |
| 9,000.00                    | 8,775.42            | 8,755.62            | 8,755.62            | 32.50           | 177.23      | -65.10                | 2,566.83                          | 1,690.39   | 2,229.64             | 2,019.97              | 209.67                  | 10.634            |                    |          |
| 9,050.00                    | 8,795.64            | 8,775.84            | 8,775.84            | 32.67           | 177.64      | -69.70                | 2,566.83                          | 1,690.39   | 2,196.84             | 1,986.63              | 210.21                  | 10.451            |                    |          |
| 9,100.00                    | 8,811.80            | 8,792.00            | 8,792.00            | 32.87           | 177.97      | -74.49                | 2,566.83                          | 1,690.39   | 2,163.39             | 1,952.71              | 210.68                  | 10.269            |                    |          |
| 9,150.00                    | 8,823.77            | 8,803.97            | 8,803.97            | 33.10           | 178.21      | -79.36                | 2,566.83                          | 1,690.39   | 2,129.62             | 1,918.55              | 211.06                  | 10.090            |                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft  |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|----------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 10.00 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |          |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |          |
| 9,200.00                    | 8,831.47            | 8,811.67            | 8,811.67            | 33.34           | 178.36      | -84.17                | 2,566.83                          | 1,690.39   | 2,095.84             | 1,884.47              | 211.37                  | 9.915             |                    |          |
| 9,250.00                    | 8,834.84            | 8,815.04            | 8,815.04            | 33.60           | 178.43      | -88.79                | 2,566.83                          | 1,690.39   | 2,062.38             | 1,850.77              | 211.61                  | 9.746             |                    |          |
| 9,263.62                    | 8,835.00            | 8,815.20            | 8,815.20            | 33.67           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,053.35             | 1,841.69              | 211.66                  | 9.701             |                    |          |
| 9,300.00                    | 8,835.00            | 8,815.20            | 8,815.20            | 33.88           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,029.50             | 1,817.71              | 211.79                  | 9.582             |                    |          |
| 9,400.00                    | 8,835.00            | 8,815.20            | 8,815.20            | 34.53           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,965.91             | 1,753.67              | 212.25                  | 9.262             |                    |          |
| 9,500.00                    | 8,835.00            | 8,815.20            | 8,815.20            | 35.30           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,905.46             | 1,692.63              | 212.83                  | 8.953             |                    |          |
| 9,600.00                    | 8,835.00            | 8,815.20            | 8,815.20            | 36.17           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,848.44             | 1,634.88              | 213.55                  | 8.656             |                    |          |
| 9,700.00                    | 8,835.00            | 8,815.20            | 8,815.20            | 37.13           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,795.18             | 1,580.76              | 214.42                  | 8.372             |                    |          |
| 9,800.00                    | 8,835.00            | 8,815.20            | 8,815.20            | 38.18           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,746.03             | 1,530.59              | 215.44                  | 8.104             |                    |          |
| 9,900.00                    | 8,835.00            | 8,815.20            | 8,815.20            | 39.31           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,701.34             | 1,484.73              | 216.61                  | 7.855             |                    |          |
| 10,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 40.51           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,661.48             | 1,443.56              | 217.91                  | 7.625             |                    |          |
| 10,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 41.78           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,626.79             | 1,407.45              | 219.34                  | 7.417             |                    |          |
| 10,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 43.10           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,597.62             | 1,376.75              | 220.87                  | 7.233             |                    |          |
| 10,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 44.49           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,574.28             | 1,351.81              | 222.47                  | 7.076             |                    |          |
| 10,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 45.92           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,557.01             | 1,332.91              | 224.10                  | 6.948             |                    |          |
| 10,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 47.39           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,546.04             | 1,320.30              | 225.74                  | 6.849             |                    |          |
| 10,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 48.91           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,541.49             | 1,314.14              | 227.34                  | 6.780             |                    |          |
| 10,620.27                   | 8,835.00            | 8,815.20            | 8,815.20            | 49.23           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,541.35             | 1,313.69              | 227.66                  | 6.770 CC, ES      |                    |          |
| 10,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 50.47           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,543.41             | 1,314.54              | 228.87                  | 6.744             |                    |          |
| 10,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 52.06           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,551.80             | 1,321.49              | 230.30                  | 6.738 SF          |                    |          |
| 10,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 53.68           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,566.53             | 1,334.92              | 231.61                  | 6.764             |                    |          |
| 11,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 55.32           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,587.44             | 1,354.66              | 232.78                  | 6.820             |                    |          |
| 11,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 57.00           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,614.28             | 1,380.49              | 233.79                  | 6.905             |                    |          |
| 11,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 58.70           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,646.77             | 1,412.11              | 234.66                  | 7.018             |                    |          |
| 11,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 60.41           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,684.58             | 1,449.20              | 235.38                  | 7.157             |                    |          |
| 11,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 62.15           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,727.36             | 1,491.39              | 235.96                  | 7.320             |                    |          |
| 11,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 63.91           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,774.74             | 1,538.32              | 236.42                  | 7.507             |                    |          |
| 11,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 65.69           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,826.38             | 1,589.62              | 236.76                  | 7.714             |                    |          |
| 11,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 67.47           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,881.91             | 1,644.92              | 237.00                  | 7.941             |                    |          |
| 11,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 69.28           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 1,941.02             | 1,703.86              | 237.15                  | 8.185             |                    |          |
| 11,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 71.09           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,003.37             | 1,766.14              | 237.23                  | 8.445             |                    |          |
| 12,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 72.92           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,068.68             | 1,831.43              | 237.25                  | 8.719             |                    |          |
| 12,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 74.76           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,136.68             | 1,899.45              | 237.22                  | 9.007             |                    |          |
| 12,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 76.61           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,207.11             | 1,969.96              | 237.15                  | 9.307             |                    |          |
| 12,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 78.47           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,279.75             | 2,042.70              | 237.05                  | 9.617             |                    |          |
| 12,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 80.34           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,354.41             | 2,117.48              | 236.92                  | 9.938             |                    |          |
| 12,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 82.22           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,430.88             | 2,194.11              | 236.77                  | 10.267            |                    |          |
| 12,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 84.11           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,509.01             | 2,272.40              | 236.61                  | 10.604            |                    |          |
| 12,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 86.00           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,588.64             | 2,352.21              | 236.43                  | 10.949            |                    |          |
| 12,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 87.90           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,669.65             | 2,433.39              | 236.25                  | 11.300            |                    |          |
| 12,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 89.81           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,751.90             | 2,515.83              | 236.07                  | 11.657            |                    |          |
| 13,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 91.72           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,835.30             | 2,599.42              | 235.88                  | 12.020            |                    |          |
| 13,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 93.64           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 2,919.73             | 2,684.04              | 235.69                  | 12.388            |                    |          |
| 13,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 95.56           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,005.13             | 2,769.63              | 235.50                  | 12.761            |                    |          |
| 13,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 97.49           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,091.40             | 2,856.08              | 235.32                  | 13.137            |                    |          |
| 13,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 99.42           | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,178.47             | 2,943.34              | 235.13                  | 13.518            |                    |          |
| 13,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 101.36          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,266.29             | 3,031.33              | 234.96                  | 13.902            |                    |          |
| 13,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 103.30          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,354.79             | 3,120.00              | 234.78                  | 14.289            |                    |          |
| 13,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 105.25          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,443.91             | 3,209.30              | 234.61                  | 14.679            |                    |          |
| 13,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 107.20          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,533.62             | 3,299.17              | 234.45                  | 15.072            |                    |          |
| 13,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 109.15          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,623.87             | 3,389.58              | 234.29                  | 15.467            |                    |          |
| 14,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 111.10          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,714.62             | 3,480.48              | 234.14                  | 15.865            |                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft  |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|----------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 10.00 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |          |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |          |
| 14,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 113.06          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,805.83             | 3,571.84              | 233.99                  | 16.265            |                    |          |
| 14,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 115.03          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,897.47             | 3,663.62              | 233.85                  | 16.667            |                    |          |
| 14,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 116.99          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 3,989.51             | 3,755.80              | 233.71                  | 17.070            |                    |          |
| 14,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 118.96          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,081.93             | 3,848.35              | 233.58                  | 17.476            |                    |          |
| 14,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 120.93          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,174.70             | 3,941.25              | 233.45                  | 17.883            |                    |          |
| 14,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 122.90          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,267.79             | 4,034.46              | 233.33                  | 18.291            |                    |          |
| 14,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 124.88          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,361.19             | 4,127.98              | 233.21                  | 18.700            |                    |          |
| 14,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 126.86          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,454.88             | 4,221.78              | 233.10                  | 19.111            |                    |          |
| 14,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 128.84          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,548.83             | 4,315.84              | 233.00                  | 19.523            |                    |          |
| 15,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 130.82          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,643.04             | 4,410.15              | 232.90                  | 19.936            |                    |          |
| 15,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 132.80          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,737.49             | 4,504.69              | 232.80                  | 20.350            |                    |          |
| 15,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 134.79          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,832.16             | 4,599.45              | 232.71                  | 20.765            |                    |          |
| 15,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 136.78          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 4,927.04             | 4,694.41              | 232.62                  | 21.181            |                    |          |
| 15,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 138.76          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,022.11             | 4,789.58              | 232.54                  | 21.597            |                    |          |
| 15,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 140.76          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,117.38             | 4,884.92              | 232.46                  | 22.014            |                    |          |
| 15,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 142.75          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,212.82             | 4,980.44              | 232.38                  | 22.432            |                    |          |
| 15,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 144.74          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,308.43             | 5,076.12              | 232.31                  | 22.850            |                    |          |
| 15,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 146.74          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,404.20             | 5,171.96              | 232.25                  | 23.269            |                    |          |
| 15,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 148.73          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,500.12             | 5,267.94              | 232.18                  | 23.689            |                    |          |
| 16,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 150.73          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,596.19             | 5,364.06              | 232.12                  | 24.109            |                    |          |
| 16,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 152.73          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,692.39             | 5,460.32              | 232.07                  | 24.529            |                    |          |
| 16,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 154.73          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,788.71             | 5,556.70              | 232.01                  | 24.950            |                    |          |
| 16,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 156.73          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,885.16             | 5,653.20              | 231.96                  | 25.371            |                    |          |
| 16,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 158.74          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 5,981.73             | 5,749.81              | 231.92                  | 25.792            |                    |          |
| 16,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 160.74          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,078.41             | 5,846.53              | 231.87                  | 26.214            |                    |          |
| 16,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 162.74          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,175.19             | 5,943.36              | 231.83                  | 26.636            |                    |          |
| 16,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 164.75          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,272.08             | 6,040.28              | 231.80                  | 27.059            |                    |          |
| 16,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 166.76          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,369.06             | 6,137.29              | 231.76                  | 27.481            |                    |          |
| 16,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 168.77          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,466.13             | 6,234.40              | 231.73                  | 27.904            |                    |          |
| 17,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 170.77          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,563.29             | 6,331.59              | 231.70                  | 28.327            |                    |          |
| 17,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 172.78          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,660.53             | 6,428.86              | 231.67                  | 28.750            |                    |          |
| 17,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 174.79          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,757.86             | 6,526.21              | 231.65                  | 29.173            |                    |          |
| 17,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 176.81          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,855.26             | 6,623.63              | 231.63                  | 29.596            |                    |          |
| 17,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 178.82          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 6,952.74             | 6,721.13              | 231.61                  | 30.019            |                    |          |
| 17,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 180.83          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,050.28             | 6,818.69              | 231.59                  | 30.443            |                    |          |
| 17,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 182.84          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,147.90             | 6,916.32              | 231.58                  | 30.866            |                    |          |
| 17,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 184.86          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,245.58             | 7,014.01              | 231.57                  | 31.289            |                    |          |
| 17,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 186.87          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,343.32             | 7,111.76              | 231.56                  | 31.713            |                    |          |
| 17,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 188.89          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,441.12             | 7,209.57              | 231.55                  | 32.136            |                    |          |
| 18,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 190.91          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,538.98             | 7,307.44              | 231.54                  | 32.560            |                    |          |
| 18,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 192.92          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,636.90             | 7,405.36              | 231.54                  | 32.983            |                    |          |
| 18,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 194.94          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,734.87             | 7,503.33              | 231.54                  | 33.407            |                    |          |
| 18,300.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 196.96          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,832.88             | 7,601.35              | 231.54                  | 33.830            |                    |          |
| 18,400.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 198.98          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 7,930.95             | 7,699.42              | 231.54                  | 34.253            |                    |          |
| 18,500.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 201.00          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,029.07             | 7,797.53              | 231.54                  | 34.677            |                    |          |
| 18,600.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 203.02          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,127.23             | 7,895.69              | 231.55                  | 35.100            |                    |          |
| 18,700.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 205.04          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,225.44             | 7,993.89              | 231.55                  | 35.523            |                    |          |
| 18,800.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 207.06          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,323.69             | 8,092.13              | 231.56                  | 35.946            |                    |          |
| 18,900.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 209.08          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,421.98             | 8,190.41              | 231.57                  | 36.369            |                    |          |
| 19,000.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 211.10          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,520.31             | 8,288.73              | 231.59                  | 36.791            |                    |          |
| 19,100.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 213.12          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,618.68             | 8,387.08              | 231.60                  | 37.214            |                    |          |
| 19,200.00                   | 8,835.00            | 8,815.20            | 8,815.20            | 215.15          | 178.44      | -90.00                | 2,566.83                          | 1,690.39   | 8,717.09             | 8,485.47              | 231.61                  | 37.636            |                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b>   |                        | Sec 14-T21S-R27E - Allied State Com 1 (Active) - Wellbore #1 - Wellbore #1 |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Site Error:</b> | 0.00 ft  |
|------------------------|------------------------|----------------------------------------------------------------------------|------------------------|-------------------|----------------|--------------------------|-----------------------------------------|---------------|-------------------------|--------------------------|----------------------------|---------------------------|----------|
| Survey Program:        |                        | 10-INC-ONLY                                                                |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Well Error:</b> | 10.00 ft |
| Reference              |                        | Offset                                                                     |                        | Semi Major Axis   |                |                          | Distance                                |               |                         |                          |                            |                           | Warning  |
| Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Measured Depth<br>(ft)                                                     | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between Centres<br>(ft) | Between Ellipses<br>(ft) | Minimum Separation<br>(ft) | Separation Factor         |          |
| 19,308.27              | 8,835.00               | 8,815.20                                                                   | 8,815.20               | 217.34            | 178.44         | -90.00                   | 2,566.83                                | 1,690.39      | 8,823.67                | 8,592.04                 | 231.63                     | 38.093                    |          |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Site Error: | 0.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                    | Warning |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor  |         |
| 0.00                        | 0.00                | 0.00                | 0.00                | 0.50            | 0.50        | 165.02                | -1,408.43                         | 376.84     | 1,458.02             |                       |                         |                    |         |
| 100.00                      | 100.00              | 89.20               | 89.20               | 0.52            | 1.29        | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,456.17              | 1.80                    | 807.758            |         |
| 200.00                      | 200.00              | 189.20              | 189.20              | 0.70            | 2.73        | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,454.54              | 3.43                    | 424.811            |         |
| 300.00                      | 300.00              | 289.20              | 289.20              | 0.99            | 4.21        | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,452.78              | 5.20                    | 280.459            |         |
| 400.00                      | 400.00              | 389.20              | 389.20              | 1.31            | 5.70        | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,450.97              | 7.01                    | 207.982            |         |
| 500.00                      | 500.00              | 489.20              | 489.20              | 1.65            | 7.19        | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,449.14              | 8.84                    | 164.926            |         |
| 600.00                      | 600.00              | 589.20              | 589.20              | 1.99            | 8.69        | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,447.30              | 10.68                   | 136.523            |         |
| 700.00                      | 700.00              | 689.20              | 689.20              | 2.34            | 10.18       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,445.45              | 12.52                   | 116.418            |         |
| 800.00                      | 800.00              | 789.20              | 789.20              | 2.69            | 11.68       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,443.60              | 14.37                   | 101.453            |         |
| 900.00                      | 900.00              | 889.20              | 889.20              | 3.04            | 13.18       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,441.76              | 16.22                   | 89.886             |         |
| 1,000.00                    | 1,000.00            | 989.20              | 989.20              | 3.40            | 14.67       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,439.90              | 18.07                   | 80.680             |         |
| 1,100.00                    | 1,100.00            | 1,089.20            | 1,089.20            | 3.75            | 16.17       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,438.05              | 19.92                   | 73.181             |         |
| 1,200.00                    | 1,200.00            | 1,189.20            | 1,189.20            | 4.11            | 17.67       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,436.20              | 21.78                   | 66.955             |         |
| 1,300.00                    | 1,300.00            | 1,289.20            | 1,289.20            | 4.46            | 19.16       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,434.35              | 23.63                   | 61.704             |         |
| 1,400.00                    | 1,400.00            | 1,389.20            | 1,389.20            | 4.82            | 20.66       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,432.49              | 25.48                   | 57.216             |         |
| 1,500.00                    | 1,500.00            | 1,489.20            | 1,489.20            | 5.18            | 22.16       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,430.64              | 27.34                   | 53.335             |         |
| 1,600.00                    | 1,600.00            | 1,589.20            | 1,589.20            | 5.53            | 23.66       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,428.79              | 29.19                   | 49.947             |         |
| 1,700.00                    | 1,700.00            | 1,689.20            | 1,689.20            | 5.89            | 25.15       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,426.93              | 31.04                   | 46.964             |         |
| 1,800.00                    | 1,800.00            | 1,789.20            | 1,789.20            | 6.25            | 26.65       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,425.08              | 32.90                   | 44.316             |         |
| 1,900.00                    | 1,900.00            | 1,889.20            | 1,889.20            | 6.61            | 28.15       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,423.22              | 34.75                   | 41.951             |         |
| 2,000.00                    | 2,000.00            | 1,989.20            | 1,989.20            | 6.96            | 29.65       | 165.02                | -1,408.43                         | 376.84     | 1,457.98             | 1,421.37              | 36.61                   | 39.826 CC          |         |
| 2,100.00                    | 2,099.99            | 2,089.19            | 2,089.19            | 7.32            | 31.14       | 177.80                | -1,408.43                         | 376.84     | 1,458.85             | 1,420.38              | 38.46                   | 37.928 ES          |         |
| 2,200.00                    | 2,199.96            | 2,189.16            | 2,189.16            | 7.68            | 32.64       | 177.80                | -1,408.43                         | 376.84     | 1,461.46             | 1,421.15              | 40.32                   | 36.249             |         |
| 2,300.00                    | 2,299.86            | 2,289.06            | 2,289.06            | 8.04            | 34.14       | 177.81                | -1,408.43                         | 376.84     | 1,465.82             | 1,423.65              | 42.17                   | 34.759             |         |
| 2,400.00                    | 2,399.68            | 2,388.88            | 2,388.88            | 8.39            | 35.63       | 177.82                | -1,408.43                         | 376.84     | 1,471.92             | 1,427.90              | 44.02                   | 33.435             |         |
| 2,500.00                    | 2,499.37            | 2,488.57            | 2,488.57            | 8.75            | 37.12       | 177.82                | -1,408.43                         | 376.84     | 1,479.76             | 1,433.89              | 45.87                   | 32.258             |         |
| 2,600.00                    | 2,598.90            | 2,588.10            | 2,588.10            | 9.11            | 38.61       | 177.84                | -1,408.43                         | 376.84     | 1,489.34             | 1,441.62              | 47.72                   | 31.210             |         |
| 2,700.00                    | 2,698.26            | 2,687.46            | 2,687.46            | 9.46            | 40.10       | 177.85                | -1,408.43                         | 376.84     | 1,500.65             | 1,451.09              | 49.57                   | 30.276             |         |
| 2,800.00                    | 2,797.40            | 2,786.60            | 2,786.60            | 9.82            | 41.59       | 177.86                | -1,408.43                         | 376.84     | 1,513.70             | 1,462.29              | 51.41                   | 29.446             |         |
| 2,900.00                    | 2,896.30            | 2,885.50            | 2,885.50            | 10.18           | 43.07       | 177.88                | -1,408.43                         | 376.84     | 1,528.47             | 1,475.22              | 53.24                   | 28.707             |         |
| 3,000.00                    | 2,994.93            | 2,984.13            | 2,984.13            | 10.54           | 44.54       | 177.89                | -1,408.43                         | 376.84     | 1,544.96             | 1,489.88              | 55.08                   | 28.051             |         |
| 3,100.00                    | 3,093.26            | 3,082.46            | 3,082.46            | 10.90           | 46.02       | 177.91                | -1,408.43                         | 376.84     | 1,563.17             | 1,506.26              | 56.91                   | 27.469             |         |
| 3,195.07                    | 3,186.42            | 3,175.62            | 3,175.62            | 11.24           | 47.41       | 177.93                | -1,408.43                         | 376.84     | 1,582.07             | 1,523.43              | 58.64                   | 26.979             |         |
| 3,200.00                    | 3,191.25            | 3,180.45            | 3,180.45            | 11.26           | 47.48       | 177.93                | -1,408.43                         | 376.84     | 1,583.09             | 1,524.36              | 58.73                   | 26.955             |         |
| 3,300.00                    | 3,289.08            | 3,278.28            | 3,278.28            | 11.62           | 48.95       | 177.96                | -1,408.43                         | 376.84     | 1,603.79             | 1,543.23              | 60.55                   | 26.486             |         |
| 3,400.00                    | 3,386.91            | 3,376.11            | 3,376.11            | 11.98           | 50.41       | 177.98                | -1,408.43                         | 376.84     | 1,624.48             | 1,562.11              | 62.38                   | 26.043             |         |
| 3,500.00                    | 3,484.74            | 3,473.94            | 3,473.94            | 12.35           | 51.88       | 178.01                | -1,408.43                         | 376.84     | 1,645.18             | 1,580.98              | 64.20                   | 25.626             |         |
| 3,600.00                    | 3,582.58            | 3,571.78            | 3,571.78            | 12.72           | 53.35       | 178.03                | -1,408.43                         | 376.84     | 1,665.87             | 1,599.85              | 66.03                   | 25.231             |         |
| 3,700.00                    | 3,680.41            | 3,669.61            | 3,669.61            | 13.09           | 54.81       | 178.06                | -1,408.43                         | 376.84     | 1,686.57             | 1,618.71              | 67.85                   | 24.857             |         |
| 3,800.00                    | 3,778.24            | 3,767.44            | 3,767.44            | 13.46           | 56.28       | 178.08                | -1,408.43                         | 376.84     | 1,707.26             | 1,637.58              | 69.68                   | 24.502             |         |
| 3,900.00                    | 3,876.08            | 3,865.28            | 3,865.28            | 13.83           | 57.74       | 178.10                | -1,408.43                         | 376.84     | 1,727.96             | 1,656.45              | 71.51                   | 24.164             |         |
| 4,000.00                    | 3,973.91            | 3,963.11            | 3,963.11            | 14.21           | 59.21       | 178.13                | -1,408.43                         | 376.84     | 1,748.65             | 1,675.32              | 73.34                   | 23.844             |         |
| 4,100.00                    | 4,071.74            | 4,060.94            | 4,060.94            | 14.58           | 60.67       | 178.15                | -1,408.43                         | 376.84     | 1,769.35             | 1,694.18              | 75.17                   | 23.539             |         |
| 4,200.00                    | 4,169.57            | 4,158.77            | 4,158.77            | 14.96           | 62.14       | 178.17                | -1,408.43                         | 376.84     | 1,790.05             | 1,713.05              | 77.00                   | 23.248             |         |
| 4,300.00                    | 4,267.41            | 4,256.61            | 4,256.61            | 15.33           | 63.60       | 178.19                | -1,408.43                         | 376.84     | 1,810.74             | 1,731.91              | 78.83                   | 22.970             |         |
| 4,400.00                    | 4,365.24            | 4,354.44            | 4,354.44            | 15.71           | 65.07       | 178.21                | -1,408.43                         | 376.84     | 1,831.44             | 1,750.78              | 80.66                   | 22.705             |         |
| 4,500.00                    | 4,463.07            | 4,452.27            | 4,452.27            | 16.09           | 66.53       | 178.23                | -1,408.43                         | 376.84     | 1,852.14             | 1,769.64              | 82.50                   | 22.451             |         |
| 4,600.00                    | 4,560.90            | 4,550.10            | 4,550.10            | 16.47           | 68.00       | 178.25                | -1,408.43                         | 376.84     | 1,872.84             | 1,788.51              | 84.33                   | 22.208             |         |
| 4,700.00                    | 4,658.74            | 4,647.94            | 4,647.94            | 16.85           | 69.46       | 178.27                | -1,408.43                         | 376.84     | 1,893.53             | 1,807.37              | 86.17                   | 21.976             |         |
| 4,800.00                    | 4,756.57            | 4,745.77            | 4,745.77            | 17.23           | 70.93       | 178.29                | -1,408.43                         | 376.84     | 1,914.23             | 1,826.23              | 88.00                   | 21.753             |         |
| 4,900.00                    | 4,854.40            | 4,843.60            | 4,843.60            | 17.61           | 72.39       | 178.31                | -1,408.43                         | 376.84     | 1,934.93             | 1,845.09              | 89.84                   | 21.539             |         |
| 5,000.00                    | 4,952.23            | 4,941.43            | 4,941.43            | 17.99           | 73.86       | 178.32                | -1,408.43                         | 376.84     | 1,955.63             | 1,863.96              | 91.67                   | 21.333             |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                    | 5,050.07            | 5,039.27            | 5,039.27            | 18.37           | 75.32       | 178.34                | -1,408.43                         | 376.84     | 1,976.33             | 1,882.82              | 93.51                   | 21.135            |                    |         |
| 5,200.00                    | 5,147.90            | 5,137.10            | 5,137.10            | 18.75           | 76.79       | 178.36                | -1,408.43                         | 376.84     | 1,997.03             | 1,901.68              | 95.34                   | 20.945            |                    |         |
| 5,300.00                    | 5,245.73            | 5,234.93            | 5,234.93            | 19.14           | 78.25       | 178.38                | -1,408.43                         | 376.84     | 2,017.72             | 1,920.54              | 97.18                   | 20.762            |                    |         |
| 5,400.00                    | 5,343.56            | 5,332.76            | 5,332.76            | 19.52           | 79.72       | 178.39                | -1,408.43                         | 376.84     | 2,038.42             | 1,939.40              | 99.02                   | 20.586            |                    |         |
| 5,500.00                    | 5,441.40            | 5,430.60            | 5,430.60            | 19.90           | 81.18       | 178.41                | -1,408.43                         | 376.84     | 2,059.12             | 1,958.27              | 100.86                  | 20.416            |                    |         |
| 5,600.00                    | 5,539.23            | 5,528.43            | 5,528.43            | 20.29           | 82.65       | 178.42                | -1,408.43                         | 376.84     | 2,079.82             | 1,977.13              | 102.70                  | 20.252            |                    |         |
| 5,700.00                    | 5,637.06            | 5,626.26            | 5,626.26            | 20.67           | 84.11       | 178.44                | -1,408.43                         | 376.84     | 2,100.52             | 1,995.99              | 104.53                  | 20.094            |                    |         |
| 5,800.00                    | 5,734.90            | 5,724.10            | 5,724.10            | 21.05           | 85.58       | 178.46                | -1,408.43                         | 376.84     | 2,121.22             | 2,014.85              | 106.37                  | 19.941            |                    |         |
| 5,900.00                    | 5,832.73            | 5,821.93            | 5,821.93            | 21.44           | 87.04       | 178.47                | -1,408.43                         | 376.84     | 2,141.92             | 2,033.71              | 108.21                  | 19.794            |                    |         |
| 6,000.00                    | 5,930.56            | 5,919.76            | 5,919.76            | 21.83           | 88.51       | 178.48                | -1,408.43                         | 376.84     | 2,162.62             | 2,052.57              | 110.05                  | 19.651            |                    |         |
| 6,100.00                    | 6,028.39            | 6,017.59            | 6,017.59            | 22.21           | 89.97       | 178.50                | -1,408.43                         | 376.84     | 2,183.32             | 2,071.43              | 111.89                  | 19.513            |                    |         |
| 6,200.00                    | 6,126.23            | 6,115.43            | 6,115.43            | 22.60           | 91.44       | 178.51                | -1,408.43                         | 376.84     | 2,204.02             | 2,090.29              | 113.73                  | 19.379            |                    |         |
| 6,300.00                    | 6,224.06            | 6,213.26            | 6,213.26            | 22.98           | 92.90       | 178.53                | -1,408.43                         | 376.84     | 2,224.72             | 2,109.15              | 115.57                  | 19.250            |                    |         |
| 6,400.00                    | 6,321.89            | 6,311.09            | 6,311.09            | 23.37           | 94.37       | 178.54                | -1,408.43                         | 376.84     | 2,245.42             | 2,128.01              | 117.41                  | 19.124            |                    |         |
| 6,500.00                    | 6,419.72            | 6,408.92            | 6,408.92            | 23.76           | 95.83       | 178.55                | -1,408.43                         | 376.84     | 2,266.12             | 2,146.87              | 119.25                  | 19.003            |                    |         |
| 6,600.00                    | 6,517.56            | 6,506.76            | 6,506.76            | 24.14           | 97.30       | 178.57                | -1,408.43                         | 376.84     | 2,286.82             | 2,165.73              | 121.09                  | 18.885            |                    |         |
| 6,700.00                    | 6,615.39            | 6,604.59            | 6,604.59            | 24.53           | 98.76       | 178.58                | -1,408.43                         | 376.84     | 2,307.52             | 2,184.59              | 122.93                  | 18.770            |                    |         |
| 6,800.00                    | 6,713.22            | 6,702.42            | 6,702.42            | 24.92           | 100.23      | 178.59                | -1,408.43                         | 376.84     | 2,328.22             | 2,203.45              | 124.78                  | 18.659            |                    |         |
| 6,900.00                    | 6,811.05            | 6,800.25            | 6,800.25            | 25.30           | 101.70      | 178.60                | -1,408.43                         | 376.84     | 2,348.92             | 2,222.31              | 126.62                  | 18.551            |                    |         |
| 7,000.00                    | 6,908.89            | 6,898.09            | 6,898.09            | 25.69           | 103.16      | 178.62                | -1,408.43                         | 376.84     | 2,369.63             | 2,241.17              | 128.46                  | 18.446            |                    |         |
| 7,100.00                    | 7,006.72            | 6,995.92            | 6,995.92            | 26.08           | 104.63      | 178.63                | -1,408.43                         | 376.84     | 2,390.33             | 2,260.03              | 130.30                  | 18.345            |                    |         |
| 7,200.00                    | 7,104.55            | 7,093.75            | 7,093.75            | 26.47           | 106.09      | 178.64                | -1,408.43                         | 376.84     | 2,411.03             | 2,278.88              | 132.14                  | 18.246            |                    |         |
| 7,216.87                    | 7,121.05            | 7,110.25            | 7,110.25            | 26.53           | 106.34      | 178.64                | -1,408.43                         | 376.84     | 2,414.52             | 2,282.07              | 132.45                  | 18.229            |                    |         |
| 7,300.00                    | 7,202.57            | 7,191.77            | 7,191.77            | 26.85           | 107.56      | 178.66                | -1,408.43                         | 376.84     | 2,430.84             | 2,296.86              | 133.99                  | 18.142            |                    |         |
| 7,400.00                    | 7,301.06            | 7,290.26            | 7,290.26            | 27.23           | 109.03      | 178.67                | -1,408.43                         | 376.84     | 2,448.12             | 2,312.29              | 135.84                  | 18.023            |                    |         |
| 7,500.00                    | 7,399.97            | 7,389.17            | 7,389.17            | 27.61           | 110.51      | 178.69                | -1,408.43                         | 376.84     | 2,462.82             | 2,325.13              | 137.69                  | 17.887            |                    |         |
| 7,600.00                    | 7,499.23            | 7,488.43            | 7,488.43            | 27.98           | 112.00      | 178.70                | -1,408.43                         | 376.84     | 2,474.92             | 2,335.38              | 139.54                  | 17.736            |                    |         |
| 7,700.00                    | 7,598.77            | 7,587.97            | 7,587.97            | 28.34           | 113.49      | 178.71                | -1,408.43                         | 376.84     | 2,484.42             | 2,343.03              | 141.39                  | 17.571            |                    |         |
| 7,800.00                    | 7,698.53            | 7,687.73            | 7,687.73            | 28.70           | 114.99      | 178.71                | -1,408.43                         | 376.84     | 2,491.32             | 2,348.07              | 143.24                  | 17.392            |                    |         |
| 7,900.00                    | 7,798.44            | 7,787.64            | 7,787.64            | 29.05           | 116.48      | 178.71                | -1,408.43                         | 376.84     | 2,495.60             | 2,350.51              | 145.09                  | 17.200            |                    |         |
| 8,000.00                    | 7,898.42            | 7,887.62            | 7,887.62            | 29.39           | 117.98      | 178.72                | -1,408.43                         | 376.84     | 2,497.26             | 2,350.33              | 146.94                  | 16.996            |                    |         |
| 8,013.58                    | 7,912.00            | 7,901.20            | 7,901.20            | 29.43           | 118.18      | 165.94                | -1,408.43                         | 376.84     | 2,497.29             | 2,350.10              | 147.19                  | 16.967            |                    |         |
| 8,100.00                    | 7,998.42            | 7,987.62            | 7,987.62            | 29.73           | 119.48      | 165.94                | -1,408.43                         | 376.84     | 2,497.29             | 2,348.51              | 148.78                  | 16.785            |                    |         |
| 8,200.00                    | 8,098.42            | 8,087.62            | 8,087.62            | 30.07           | 120.98      | 165.94                | -1,408.43                         | 376.84     | 2,497.29             | 2,346.67              | 150.62                  | 16.580            |                    |         |
| 8,300.00                    | 8,198.42            | 8,187.62            | 8,187.62            | 30.41           | 122.47      | 165.94                | -1,408.43                         | 376.84     | 2,497.29             | 2,344.83              | 152.46                  | 16.380            |                    |         |
| 8,363.62                    | 8,262.04            | 8,251.24            | 8,251.24            | 30.62           | 123.43      | 165.94                | -1,408.43                         | 376.84     | 2,497.29             | 2,343.65              | 153.63                  | 16.255            |                    |         |
| 8,400.00                    | 8,298.40            | 8,287.60            | 8,287.60            | 30.75           | 123.97      | 76.33                 | -1,408.43                         | 376.84     | 2,497.01             | 2,342.72              | 154.30                  | 16.183            |                    |         |
| 8,450.00                    | 8,348.10            | 8,337.30            | 8,337.30            | 30.91           | 124.71      | 76.57                 | -1,408.43                         | 376.84     | 2,495.75             | 2,340.55              | 155.20                  | 16.081            |                    |         |
| 8,500.00                    | 8,397.14            | 8,386.34            | 8,386.34            | 31.07           | 125.45      | 77.00                 | -1,408.43                         | 376.84     | 2,493.50             | 2,337.41              | 156.09                  | 15.974            |                    |         |
| 8,550.00                    | 8,445.15            | 8,434.35            | 8,434.35            | 31.23           | 126.17      | 77.61                 | -1,408.43                         | 376.84     | 2,490.33             | 2,333.36              | 156.97                  | 15.865            |                    |         |
| 8,600.00                    | 8,491.77            | 8,480.97            | 8,480.97            | 31.38           | 126.87      | 78.39                 | -1,408.43                         | 376.84     | 2,486.32             | 2,328.50              | 157.82                  | 15.754            |                    |         |
| 8,650.00                    | 8,536.65            | 8,525.85            | 8,525.85            | 31.52           | 127.54      | 79.30                 | -1,408.43                         | 376.84     | 2,481.59             | 2,322.95              | 158.64                  | 15.643            |                    |         |
| 8,700.00                    | 8,579.43            | 8,568.63            | 8,568.63            | 31.66           | 128.18      | 80.33                 | -1,408.43                         | 376.84     | 2,476.28             | 2,316.85              | 159.43                  | 15.532            |                    |         |
| 8,750.00                    | 8,619.80            | 8,609.00            | 8,609.00            | 31.80           | 128.78      | 81.45                 | -1,408.43                         | 376.84     | 2,470.54             | 2,310.35              | 160.19                  | 15.423            |                    |         |
| 8,800.00                    | 8,657.44            | 8,646.64            | 8,646.64            | 31.93           | 129.35      | 82.62                 | -1,408.43                         | 376.84     | 2,464.54             | 2,303.63              | 160.91                  | 15.317            |                    |         |
| 8,850.00                    | 8,692.08            | 8,681.28            | 8,681.28            | 32.06           | 129.87      | 83.81                 | -1,408.43                         | 376.84     | 2,458.45             | 2,296.86              | 161.59                  | 15.214            |                    |         |
| 8,900.00                    | 8,723.44            | 8,712.64            | 8,712.64            | 32.19           | 130.34      | 84.98                 | -1,408.43                         | 376.84     | 2,452.44             | 2,290.22              | 162.23                  | 15.117            |                    |         |
| 8,950.00                    | 8,751.29            | 8,740.49            | 8,740.49            | 32.34           | 130.75      | 86.10                 | -1,408.43                         | 376.84     | 2,446.71             | 2,283.88              | 162.83                  | 15.027            |                    |         |
| 9,000.00                    | 8,775.42            | 8,764.62            | 8,764.62            | 32.50           | 131.11      | 87.13                 | -1,408.43                         | 376.84     | 2,441.41             | 2,278.03              | 163.39                  | 14.942            |                    |         |
| 9,050.00                    | 8,795.64            | 8,784.84            | 8,784.84            | 32.67           | 131.42      | 88.04                 | -1,408.43                         | 376.84     | 2,436.71             | 2,272.80              | 163.91                  | 14.866            |                    |         |
| 9,100.00                    | 8,811.80            | 8,801.00            | 8,801.00            | 32.87           | 131.66      | 88.80                 | -1,408.43                         | 376.84     | 2,432.74             | 2,268.35              | 164.39                  | 14.799            |                    |         |
| 9,150.00                    | 8,823.77            | 8,812.97            | 8,812.97            | 33.10           | 131.84      | 89.38                 | -1,408.43                         | 376.84     | 2,429.61             | 2,264.79              | 164.82                  | 14.741            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,200.00                    | 8,831.47            | 8,820.67            | 8,820.67            | 33.34           | 131.95      | 89.78                 | -1,408.43                         | 376.84     | 2,427.42             | 2,262.21              | 165.21                  | 14.693            |                    |         |
| 9,250.00                    | 8,834.84            | 8,824.04            | 8,824.04            | 33.60           | 132.00      | 89.98                 | -1,408.43                         | 376.84     | 2,426.23             | 2,260.68              | 165.55                  | 14.656            |                    |         |
| 9,263.62                    | 8,835.00            | 8,824.20            | 8,824.20            | 33.67           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,426.08             | 2,260.45              | 165.63                  | 14.647            |                    |         |
| 9,283.05                    | 8,835.00            | 8,824.20            | 8,824.20            | 33.78           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,426.01             | 2,260.26              | 165.75                  | 14.636            |                    |         |
| 9,300.00                    | 8,835.00            | 8,824.20            | 8,824.20            | 33.88           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,426.07             | 2,260.21              | 165.85                  | 14.628            |                    |         |
| 9,400.00                    | 8,835.00            | 8,824.20            | 8,824.20            | 34.53           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,428.82             | 2,262.29              | 166.53                  | 14.585            |                    |         |
| 9,500.00                    | 8,835.00            | 8,824.20            | 8,824.20            | 35.30           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,435.69             | 2,268.39              | 167.30                  | 14.559            |                    |         |
| 9,600.00                    | 8,835.00            | 8,824.20            | 8,824.20            | 36.17           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,446.62             | 2,278.48              | 168.14                  | 14.551 SF         |                    |         |
| 9,700.00                    | 8,835.00            | 8,824.20            | 8,824.20            | 37.13           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,461.58             | 2,292.54              | 169.04                  | 14.562            |                    |         |
| 9,800.00                    | 8,835.00            | 8,824.20            | 8,824.20            | 38.18           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,480.47             | 2,310.49              | 169.98                  | 14.593            |                    |         |
| 9,900.00                    | 8,835.00            | 8,824.20            | 8,824.20            | 39.31           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,503.22             | 2,332.28              | 170.95                  | 14.643            |                    |         |
| 10,000.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 40.51           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,529.73             | 2,357.80              | 171.93                  | 14.714            |                    |         |
| 10,100.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 41.78           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,559.87             | 2,386.95              | 172.91                  | 14.804            |                    |         |
| 10,200.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 43.10           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,593.51             | 2,419.62              | 173.89                  | 14.914            |                    |         |
| 10,300.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 44.49           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,630.53             | 2,455.68              | 174.85                  | 15.044            |                    |         |
| 10,400.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 45.92           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,670.78             | 2,494.99              | 175.79                  | 15.193            |                    |         |
| 10,500.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 47.39           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,714.12             | 2,537.42              | 176.70                  | 15.360            |                    |         |
| 10,600.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 48.91           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,760.41             | 2,582.83              | 177.58                  | 15.545            |                    |         |
| 10,700.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 50.47           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,809.49             | 2,631.07              | 178.42                  | 15.746            |                    |         |
| 10,800.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 52.06           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,861.23             | 2,682.01              | 179.22                  | 15.965            |                    |         |
| 10,900.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 53.68           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,915.48             | 2,735.49              | 179.99                  | 16.198            |                    |         |
| 11,000.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 55.32           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 2,972.11             | 2,791.40              | 180.71                  | 16.447            |                    |         |
| 11,100.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 57.00           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,030.97             | 2,849.58              | 181.40                  | 16.709            |                    |         |
| 11,200.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 58.70           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,091.96             | 2,909.91              | 182.04                  | 16.985            |                    |         |
| 11,300.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 60.41           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,154.93             | 2,972.28              | 182.65                  | 17.273            |                    |         |
| 11,400.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 62.15           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,219.78             | 3,036.56              | 183.22                  | 17.573            |                    |         |
| 11,500.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 63.91           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,286.39             | 3,102.63              | 183.76                  | 17.884            |                    |         |
| 11,600.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 65.69           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,354.66             | 3,170.40              | 184.26                  | 18.206            |                    |         |
| 11,700.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 67.47           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,424.49             | 3,239.76              | 184.74                  | 18.537            |                    |         |
| 11,800.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 69.28           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,495.79             | 3,310.61              | 185.18                  | 18.878            |                    |         |
| 11,900.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 71.09           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,568.46             | 3,382.87              | 185.60                  | 19.227            |                    |         |
| 12,000.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 72.92           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,642.43             | 3,456.45              | 185.99                  | 19.585            |                    |         |
| 12,100.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 74.76           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,717.62             | 3,531.27              | 186.35                  | 19.950            |                    |         |
| 12,200.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 76.61           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,793.95             | 3,607.26              | 186.69                  | 20.322            |                    |         |
| 12,300.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 78.47           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,871.37             | 3,684.35              | 187.01                  | 20.701            |                    |         |
| 12,400.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 80.34           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 3,949.79             | 3,762.48              | 187.31                  | 21.087            |                    |         |
| 12,500.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 82.22           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,029.18             | 3,841.58              | 187.60                  | 21.478            |                    |         |
| 12,600.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 84.11           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,109.46             | 3,921.60              | 187.86                  | 21.875            |                    |         |
| 12,700.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 86.00           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,190.59             | 4,002.48              | 188.11                  | 22.277            |                    |         |
| 12,800.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 87.90           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,272.52             | 4,084.17              | 188.35                  | 22.684            |                    |         |
| 12,900.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 89.81           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,355.21             | 4,166.64              | 188.57                  | 23.096            |                    |         |
| 13,000.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 91.72           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,438.60             | 4,249.83              | 188.77                  | 23.513            |                    |         |
| 13,100.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 93.64           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,522.68             | 4,333.71              | 188.97                  | 23.933            |                    |         |
| 13,200.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 95.56           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,607.38             | 4,418.23              | 189.16                  | 24.358            |                    |         |
| 13,300.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 97.49           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,692.69             | 4,503.36              | 189.33                  | 24.786            |                    |         |
| 13,400.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 99.42           | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,778.57             | 4,589.08              | 189.50                  | 25.217            |                    |         |
| 13,500.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 101.36          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,864.99             | 4,675.34              | 189.65                  | 25.652            |                    |         |
| 13,600.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 103.30          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 4,951.92             | 4,762.12              | 189.80                  | 26.090            |                    |         |
| 13,700.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 105.25          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 5,039.34             | 4,849.39              | 189.94                  | 26.531            |                    |         |
| 13,800.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 107.20          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 5,127.21             | 4,937.13              | 190.08                  | 26.974            |                    |         |
| 13,900.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 109.15          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 5,215.53             | 5,025.32              | 190.21                  | 27.420            |                    |         |
| 14,000.00                   | 8,835.00            | 8,824.20            | 8,824.20            | 111.10          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 5,304.25             | 5,113.92              | 190.33                  | 27.869            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Esperanza 14 State #001 (Active) - Wellbore #1 - Wellbore #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Site Error:</b> | 0.00 ft |
|------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 10-INC-ONLY                                                                          |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                            |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                           | Warning |
| Measured Depth (ft)                                                                                  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor         |         |
| 14,100.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 113.06          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 5,393.37             | 5,202.93              | 190.45                  | 28.320                    |         |
| 14,200.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 115.03          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 5,482.87             | 5,292.31              | 190.56                  | 28.773                    |         |
| 14,300.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 116.99          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 5,572.73             | 5,382.06              | 190.67                  | 29.228                    |         |
| 14,400.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 118.96          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 5,662.92             | 5,472.15              | 190.77                  | 29.685                    |         |
| 14,500.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 120.93          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 5,753.44             | 5,562.57              | 190.87                  | 30.144                    |         |
| 14,600.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 122.90          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 5,844.27             | 5,653.30              | 190.96                  | 30.604                    |         |
| 14,700.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 124.88          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 5,935.39             | 5,744.33              | 191.05                  | 31.067                    |         |
| 14,800.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 126.86          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 6,026.79             | 5,835.65              | 191.14                  | 31.531                    |         |
| 14,900.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 128.84          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 6,118.46             | 5,927.24              | 191.23                  | 31.996                    |         |
| 15,000.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 130.82          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 6,210.39             | 6,019.09              | 191.31                  | 32.463                    |         |
| 15,100.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 132.80          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 6,302.57             | 6,111.18              | 191.39                  | 32.931                    |         |
| 15,200.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 134.79          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 6,394.98             | 6,203.51              | 191.47                  | 33.400                    |         |
| 15,300.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 136.78          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 6,487.62             | 6,296.08              | 191.54                  | 33.871                    |         |
| 15,400.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 138.76          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 6,580.47             | 6,388.85              | 191.61                  | 34.342                    |         |
| 15,500.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 140.76          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 6,673.53             | 6,481.84              | 191.69                  | 34.815                    |         |
| 15,600.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 142.75          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 6,766.78             | 6,575.03              | 191.76                  | 35.289                    |         |
| 15,700.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 144.74          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 6,860.23             | 6,668.40              | 191.82                  | 35.763                    |         |
| 15,800.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 146.74          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 6,953.86             | 6,761.97              | 191.89                  | 36.239                    |         |
| 15,900.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 148.73          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 7,047.66             | 6,855.70              | 191.96                  | 36.715                    |         |
| 16,000.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 150.73          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 7,141.63             | 6,949.61              | 192.02                  | 37.192                    |         |
| 16,100.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 152.73          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 7,235.76             | 7,043.68              | 192.08                  | 37.670                    |         |
| 16,200.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 154.73          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 7,330.05             | 7,137.91              | 192.14                  | 38.149                    |         |
| 16,300.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 156.73          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 7,424.49             | 7,232.29              | 192.20                  | 38.628                    |         |
| 16,400.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 158.74          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 7,519.07             | 7,326.81              | 192.26                  | 39.108                    |         |
| 16,500.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 160.74          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 7,613.79             | 7,421.47              | 192.32                  | 39.588                    |         |
| 16,600.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 162.74          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 7,708.65             | 7,516.26              | 192.38                  | 40.069                    |         |
| 16,700.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 164.75          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 7,803.63             | 7,611.19              | 192.44                  | 40.551                    |         |
| 16,800.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 166.76          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 7,898.73             | 7,706.24              | 192.50                  | 41.033                    |         |
| 16,900.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 168.77          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 7,993.96             | 7,801.41              | 192.55                  | 41.516                    |         |
| 17,000.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 170.77          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 8,089.30             | 7,896.69              | 192.61                  | 41.998                    |         |
| 17,100.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 172.78          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 8,184.75             | 7,992.09              | 192.67                  | 42.482                    |         |
| 17,200.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 174.79          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 8,280.31             | 8,087.59              | 192.72                  | 42.965                    |         |
| 17,300.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 176.81          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 8,375.98             | 8,183.20              | 192.78                  | 43.449                    |         |
| 17,400.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 178.82          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 8,471.74             | 8,278.91              | 192.83                  | 43.934                    |         |
| 17,500.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 180.83          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 8,567.60             | 8,374.71              | 192.88                  | 44.418                    |         |
| 17,600.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 182.84          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 8,663.55             | 8,470.61              | 192.94                  | 44.903                    |         |
| 17,700.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 184.86          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 8,759.60             | 8,566.60              | 192.99                  | 45.388                    |         |
| 17,800.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 186.87          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 8,855.73             | 8,662.68              | 193.05                  | 45.873                    |         |
| 17,900.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 188.89          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 8,951.94             | 8,758.84              | 193.10                  | 46.359                    |         |
| 18,000.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 190.91          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 9,048.24             | 8,855.09              | 193.15                  | 46.845                    |         |
| 18,100.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 192.92          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 9,144.62             | 8,951.41              | 193.21                  | 47.330                    |         |
| 18,200.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 194.94          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 9,241.07             | 9,047.81              | 193.26                  | 47.816                    |         |
| 18,300.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 196.96          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 9,337.60             | 9,144.29              | 193.32                  | 48.302                    |         |
| 18,400.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 198.98          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 9,434.21             | 9,240.84              | 193.37                  | 48.789                    |         |
| 18,500.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 201.00          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 9,530.88             | 9,337.46              | 193.42                  | 49.275                    |         |
| 18,600.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 203.02          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 9,627.62             | 9,434.14              | 193.48                  | 49.761                    |         |
| 18,700.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 205.04          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 9,724.42             | 9,530.89              | 193.53                  | 50.248                    |         |
| 18,800.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 207.06          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 9,821.29             | 9,627.71              | 193.58                  | 50.734                    |         |
| 18,900.00                                                                                            | 8,835.00            | 8,824.20            | 8,824.20            | 209.08          | 132.01      | 90.00                 | -1,408.43                         | 376.84     | 9,918.23             | 9,724.59              | 193.64                  | 51.220                    |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Esperanza 14 State #002 (Active) - Wellbore #1 - Wellbore #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Site Error:</b> | 0.00 ft  |
|------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|----------|
| Survey Program: 10-INC-ONLY                                                                          |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Well Error:</b> | 10.00 ft |
| Reference                                                                                            |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                           | Warning  |
| Measured Depth (ft)                                                                                  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor         |          |
| 0.00                                                                                                 | 0.00                | 0.00                | 0.00                | 0.50            | 10.00       | 15.02                 | 1,387.93                          | 372.48     | 1,437.11             |                       |                         |                           |          |
| 100.00                                                                                               | 100.00              | 86.20               | 86.20               | 0.52            | 10.12       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,426.41              | 10.64                   | 135.112                   |          |
| 200.00                                                                                               | 200.00              | 186.20              | 186.20              | 0.70            | 10.62       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,425.72              | 11.32                   | 126.963                   |          |
| 300.00                                                                                               | 300.00              | 286.20              | 286.20              | 0.99            | 11.46       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,424.60              | 12.44                   | 115.491                   |          |
| 400.00                                                                                               | 400.00              | 386.20              | 386.20              | 1.31            | 12.57       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,423.16              | 13.88                   | 103.560                   |          |
| 500.00                                                                                               | 500.00              | 486.20              | 486.20              | 1.65            | 13.89       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,421.51              | 15.53                   | 92.518                    |          |
| 600.00                                                                                               | 600.00              | 586.20              | 586.20              | 1.99            | 15.36       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,419.69              | 17.35                   | 82.826                    |          |
| 700.00                                                                                               | 700.00              | 686.20              | 686.20              | 2.34            | 16.95       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,417.76              | 19.29                   | 74.513                    |          |
| 800.00                                                                                               | 800.00              | 786.20              | 786.20              | 2.69            | 18.62       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,415.73              | 21.31                   | 67.438                    |          |
| 900.00                                                                                               | 900.00              | 886.20              | 886.20              | 3.04            | 20.35       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,413.64              | 23.40                   | 61.418                    |          |
| 1,000.00                                                                                             | 1,000.00            | 986.20              | 986.20              | 3.40            | 22.14       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,411.50              | 25.54                   | 56.274                    |          |
| 1,100.00                                                                                             | 1,100.00            | 1,086.20            | 1,086.20            | 3.75            | 23.96       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,409.33              | 27.71                   | 51.853                    |          |
| 1,200.00                                                                                             | 1,200.00            | 1,186.20            | 1,186.20            | 4.11            | 25.81       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,407.12              | 29.92                   | 48.026                    |          |
| 1,300.00                                                                                             | 1,300.00            | 1,286.20            | 1,286.20            | 4.46            | 27.69       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,404.89              | 32.15                   | 44.692                    |          |
| 1,400.00                                                                                             | 1,400.00            | 1,386.20            | 1,386.20            | 4.82            | 29.59       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,402.63              | 34.41                   | 41.767                    |          |
| 1,500.00                                                                                             | 1,500.00            | 1,486.20            | 1,486.20            | 5.18            | 31.50       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,400.37              | 36.67                   | 39.183                    |          |
| 1,600.00                                                                                             | 1,600.00            | 1,586.20            | 1,586.20            | 5.53            | 33.42       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,398.08              | 38.96                   | 36.888                    |          |
| 1,700.00                                                                                             | 1,700.00            | 1,686.20            | 1,686.20            | 5.89            | 35.36       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,395.79              | 41.25                   | 34.838                    |          |
| 1,800.00                                                                                             | 1,800.00            | 1,786.20            | 1,786.20            | 6.25            | 37.30       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,393.49              | 43.55                   | 32.996                    |          |
| 1,900.00                                                                                             | 1,900.00            | 1,886.20            | 1,886.20            | 6.61            | 39.26       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,391.18              | 45.86                   | 31.334                    |          |
| 2,000.00                                                                                             | 2,000.00            | 1,986.20            | 1,986.20            | 6.96            | 41.22       | 15.02                 | 1,387.93                          | 372.48     | 1,437.04             | 1,388.86              | 48.18                   | 29.827                    |          |
| 2,100.00                                                                                             | 2,099.99            | 2,086.19            | 2,086.19            | 7.32            | 43.18       | 27.82                 | 1,387.93                          | 372.48     | 1,436.27             | 1,385.77              | 50.50                   | 28.440                    |          |
| 2,200.00                                                                                             | 2,199.96            | 2,186.16            | 2,186.16            | 7.68            | 45.15       | 27.88                 | 1,387.93                          | 372.48     | 1,433.95             | 1,381.12              | 52.83                   | 27.143                    |          |
| 2,300.00                                                                                             | 2,299.86            | 2,286.06            | 2,286.06            | 8.04            | 47.13       | 27.98                 | 1,387.93                          | 372.48     | 1,430.10             | 1,374.94              | 55.16                   | 25.926                    |          |
| 2,400.00                                                                                             | 2,399.68            | 2,385.88            | 2,385.88            | 8.39            | 49.10       | 28.12                 | 1,387.93                          | 372.48     | 1,424.71             | 1,367.22              | 57.49                   | 24.781                    |          |
| 2,500.00                                                                                             | 2,499.37            | 2,485.57            | 2,485.57            | 8.75            | 51.08       | 28.30                 | 1,387.93                          | 372.48     | 1,417.79             | 1,357.96              | 59.83                   | 23.698                    |          |
| 2,600.00                                                                                             | 2,598.90            | 2,585.10            | 2,585.10            | 9.11            | 53.05       | 28.53                 | 1,387.93                          | 372.48     | 1,409.35             | 1,347.19              | 62.16                   | 22.673                    |          |
| 2,700.00                                                                                             | 2,698.26            | 2,684.46            | 2,684.46            | 9.46            | 55.03       | 28.80                 | 1,387.93                          | 372.48     | 1,399.41             | 1,334.91              | 64.49                   | 21.698                    |          |
| 2,800.00                                                                                             | 2,797.40            | 2,783.60            | 2,783.60            | 9.82            | 57.00       | 29.11                 | 1,387.93                          | 372.48     | 1,387.96             | 1,321.14              | 66.82                   | 20.770                    |          |
| 2,900.00                                                                                             | 2,896.30            | 2,882.50            | 2,882.50            | 10.18           | 58.97       | 29.48                 | 1,387.93                          | 372.48     | 1,375.04             | 1,305.88              | 69.15                   | 19.884                    |          |
| 3,000.00                                                                                             | 2,994.93            | 2,981.13            | 2,981.13            | 10.54           | 60.94       | 29.89                 | 1,387.93                          | 372.48     | 1,360.65             | 1,289.17              | 71.48                   | 19.036                    |          |
| 3,100.00                                                                                             | 3,093.26            | 3,079.46            | 3,079.46            | 10.90           | 62.90       | 30.36                 | 1,387.93                          | 372.48     | 1,344.82             | 1,271.02              | 73.80                   | 18.222                    |          |
| 3,195.07                                                                                             | 3,186.42            | 3,172.62            | 3,172.62            | 11.24           | 64.77       | 30.85                 | 1,387.93                          | 372.48     | 1,328.46             | 1,252.45              | 76.00                   | 17.479                    |          |
| 3,200.00                                                                                             | 3,191.25            | 3,177.45            | 3,177.45            | 11.26           | 64.86       | 30.87                 | 1,387.93                          | 372.48     | 1,327.58             | 1,251.46              | 76.12                   | 17.441                    |          |
| 3,300.00                                                                                             | 3,289.08            | 3,275.28            | 3,275.28            | 11.62           | 66.82       | 31.34                 | 1,387.93                          | 372.48     | 1,309.74             | 1,231.31              | 78.43                   | 16.699                    |          |
| 3,400.00                                                                                             | 3,386.91            | 3,373.11            | 3,373.11            | 11.98           | 68.78       | 31.81                 | 1,387.93                          | 372.48     | 1,292.00             | 1,211.24              | 80.75                   | 15.999                    |          |
| 3,500.00                                                                                             | 3,484.74            | 3,470.94            | 3,470.94            | 12.35           | 70.74       | 32.30                 | 1,387.93                          | 372.48     | 1,274.34             | 1,191.27              | 83.08                   | 15.340                    |          |
| 3,600.00                                                                                             | 3,582.58            | 3,568.78            | 3,568.78            | 12.72           | 72.70       | 32.80                 | 1,387.93                          | 372.48     | 1,256.78             | 1,171.38              | 85.40                   | 14.716                    |          |
| 3,700.00                                                                                             | 3,680.41            | 3,666.61            | 3,666.61            | 13.09           | 74.66       | 33.31                 | 1,387.93                          | 372.48     | 1,239.31             | 1,151.58              | 87.73                   | 14.127                    |          |
| 3,800.00                                                                                             | 3,778.24            | 3,764.44            | 3,764.44            | 13.46           | 76.62       | 33.84                 | 1,387.93                          | 372.48     | 1,221.94             | 1,131.89              | 90.06                   | 13.569                    |          |
| 3,900.00                                                                                             | 3,876.08            | 3,862.28            | 3,862.28            | 13.83           | 78.58       | 34.39                 | 1,387.93                          | 372.48     | 1,204.68             | 1,112.30              | 92.39                   | 13.040                    |          |
| 4,000.00                                                                                             | 3,973.91            | 3,960.11            | 3,960.11            | 14.21           | 80.55       | 34.95                 | 1,387.93                          | 372.48     | 1,187.53             | 1,092.81              | 94.72                   | 12.537                    |          |
| 4,100.00                                                                                             | 4,071.74            | 4,057.94            | 4,057.94            | 14.58           | 82.51       | 35.53                 | 1,387.93                          | 372.48     | 1,170.50             | 1,073.44              | 97.05                   | 12.060                    |          |
| 4,200.00                                                                                             | 4,169.57            | 4,155.77            | 4,155.77            | 14.96           | 84.48       | 36.12                 | 1,387.93                          | 372.48     | 1,153.58             | 1,054.19              | 99.39                   | 11.607                    |          |
| 4,300.00                                                                                             | 4,267.41            | 4,253.61            | 4,253.61            | 15.33           | 86.44       | 36.73                 | 1,387.93                          | 372.48     | 1,136.79             | 1,035.07              | 101.73                  | 11.175                    |          |
| 4,400.00                                                                                             | 4,365.24            | 4,351.44            | 4,351.44            | 15.71           | 88.41       | 37.36                 | 1,387.93                          | 372.48     | 1,120.14             | 1,016.07              | 104.07                  | 10.763                    |          |
| 4,500.00                                                                                             | 4,463.07            | 4,449.27            | 4,449.27            | 16.09           | 90.38       | 38.00                 | 1,387.93                          | 372.48     | 1,103.62             | 997.21                | 106.41                  | 10.371                    |          |
| 4,600.00                                                                                             | 4,560.90            | 4,547.10            | 4,547.10            | 16.47           | 92.34       | 38.67                 | 1,387.93                          | 372.48     | 1,087.24             | 978.48                | 108.75                  | 9.997                     |          |
| 4,700.00                                                                                             | 4,658.74            | 4,644.94            | 4,644.94            | 16.85           | 94.31       | 39.36                 | 1,387.93                          | 372.48     | 1,071.01             | 959.91                | 111.10                  | 9.640                     |          |
| 4,800.00                                                                                             | 4,756.57            | 4,742.77            | 4,742.77            | 17.23           | 96.28       | 40.06                 | 1,387.93                          | 372.48     | 1,054.94             | 941.50                | 113.44                  | 9.299                     |          |
| 4,900.00                                                                                             | 4,854.40            | 4,840.60            | 4,840.60            | 17.61           | 98.25       | 40.79                 | 1,387.93                          | 372.48     | 1,039.03             | 923.24                | 115.79                  | 8.973                     |          |
| 5,000.00                                                                                             | 4,952.23            | 4,938.43            | 4,938.43            | 17.99           | 100.22      | 41.54                 | 1,387.93                          | 372.48     | 1,023.30             | 905.16                | 118.14                  | 8.662                     |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Sec 14-T21S-R27E - Esperanza 14 State #002 (Active) - Wellbore #1 - Wellbore #1 |         | Offset Site Error: 0.00 ft |  |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|---------------------------------------------------------------------------------|---------|----------------------------|--|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: 10.00 ft                                                     |         |                            |  |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                                                                                 | Warning |                            |  |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                                                                                 |         |                            |  |
| 5,100.00                    | 5,050.07            | 5,036.27            | 5,036.27            | 18.37           | 102.19      | 42.32                 | 1,387.93                          | 372.48     | 1,007.74             | 887.26                | 120.49                  | 8.364             |                                                                                 |         |                            |  |
| 5,200.00                    | 5,147.90            | 5,134.10            | 5,134.10            | 18.75           | 104.16      | 43.11                 | 1,387.93                          | 372.48     | 992.37               | 869.54                | 122.84                  | 8.079             |                                                                                 |         |                            |  |
| 5,300.00                    | 5,245.73            | 5,231.93            | 5,231.93            | 19.14           | 106.13      | 43.93                 | 1,387.93                          | 372.48     | 977.21               | 852.02                | 125.19                  | 7.806             |                                                                                 |         |                            |  |
| 5,400.00                    | 5,343.56            | 5,329.76            | 5,329.76            | 19.52           | 108.10      | 44.78                 | 1,387.93                          | 372.48     | 962.24               | 834.70                | 127.54                  | 7.545             |                                                                                 |         |                            |  |
| 5,500.00                    | 5,441.40            | 5,427.60            | 5,427.60            | 19.90           | 110.07      | 45.65                 | 1,387.93                          | 372.48     | 947.49               | 817.60                | 129.89                  | 7.294             |                                                                                 |         |                            |  |
| 5,600.00                    | 5,539.23            | 5,525.43            | 5,525.43            | 20.29           | 112.04      | 46.55                 | 1,387.93                          | 372.48     | 932.97               | 800.72                | 132.25                  | 7.055             |                                                                                 |         |                            |  |
| 5,700.00                    | 5,637.06            | 5,623.26            | 5,623.26            | 20.67           | 114.01      | 47.48                 | 1,387.93                          | 372.48     | 918.69               | 784.09                | 134.61                  | 6.825             |                                                                                 |         |                            |  |
| 5,800.00                    | 5,734.90            | 5,721.10            | 5,721.10            | 21.05           | 115.99      | 48.43                 | 1,387.93                          | 372.48     | 904.66               | 767.69                | 136.96                  | 6.605             |                                                                                 |         |                            |  |
| 5,900.00                    | 5,832.73            | 5,818.93            | 5,818.93            | 21.44           | 117.96      | 49.42                 | 1,387.93                          | 372.48     | 890.88               | 751.56                | 139.32                  | 6.395             |                                                                                 |         |                            |  |
| 6,000.00                    | 5,930.56            | 5,916.76            | 5,916.76            | 21.83           | 119.93      | 50.43                 | 1,387.93                          | 372.48     | 877.38               | 735.70                | 141.68                  | 6.193             |                                                                                 |         |                            |  |
| 6,100.00                    | 6,028.39            | 6,014.59            | 6,014.59            | 22.21           | 121.90      | 51.48                 | 1,387.93                          | 372.48     | 864.16               | 720.12                | 144.04                  | 6.000             |                                                                                 |         |                            |  |
| 6,200.00                    | 6,126.23            | 6,112.43            | 6,112.43            | 22.60           | 123.88      | 52.55                 | 1,387.93                          | 372.48     | 851.24               | 704.85                | 146.40                  | 5.815             |                                                                                 |         |                            |  |
| 6,300.00                    | 6,224.06            | 6,210.26            | 6,210.26            | 22.98           | 125.85      | 53.66                 | 1,387.93                          | 372.48     | 838.64               | 689.88                | 148.76                  | 5.638             |                                                                                 |         |                            |  |
| 6,400.00                    | 6,321.89            | 6,308.09            | 6,308.09            | 23.37           | 127.82      | 54.80                 | 1,387.93                          | 372.48     | 826.36               | 675.24                | 151.12                  | 5.468             |                                                                                 |         |                            |  |
| 6,500.00                    | 6,419.72            | 6,405.92            | 6,405.92            | 23.76           | 129.80      | 55.97                 | 1,387.93                          | 372.48     | 814.42               | 660.94                | 153.48                  | 5.306             |                                                                                 |         |                            |  |
| 6,600.00                    | 6,517.56            | 6,503.76            | 6,503.76            | 24.14           | 131.77      | 57.18                 | 1,387.93                          | 372.48     | 802.84               | 646.99                | 155.85                  | 5.151             |                                                                                 |         |                            |  |
| 6,700.00                    | 6,615.39            | 6,601.59            | 6,601.59            | 24.53           | 133.74      | 58.42                 | 1,387.93                          | 372.48     | 791.63               | 633.42                | 158.21                  | 5.004             |                                                                                 |         |                            |  |
| 6,800.00                    | 6,713.22            | 6,699.42            | 6,699.42            | 24.92           | 135.72      | 59.69                 | 1,387.93                          | 372.48     | 780.81               | 620.23                | 160.58                  | 4.863             | Alert                                                                           |         |                            |  |
| 6,900.00                    | 6,811.05            | 6,797.25            | 6,797.25            | 25.30           | 137.69      | 61.00                 | 1,387.93                          | 372.48     | 770.39               | 607.45                | 162.94                  | 4.728             | Alert                                                                           |         |                            |  |
| 7,000.00                    | 6,908.89            | 6,895.09            | 6,895.09            | 25.69           | 139.67      | 62.34                 | 1,387.93                          | 372.48     | 760.40               | 595.09                | 165.31                  | 4.600             | Alert                                                                           |         |                            |  |
| 7,100.00                    | 7,006.72            | 6,992.92            | 6,992.92            | 26.08           | 141.64      | 63.72                 | 1,387.93                          | 372.48     | 750.84               | 583.17                | 167.68                  | 4.478             | Alert                                                                           |         |                            |  |
| 7,200.00                    | 7,104.55            | 7,090.75            | 7,090.75            | 26.47           | 143.61      | 65.12                 | 1,387.93                          | 372.48     | 741.74               | 571.70                | 170.04                  | 4.362             | Alert                                                                           |         |                            |  |
| 7,216.87                    | 7,121.05            | 7,107.25            | 7,107.25            | 26.53           | 143.95      | 65.36                 | 1,387.93                          | 372.48     | 740.25               | 569.81                | 170.44                  | 4.343             | Alert                                                                           |         |                            |  |
| 7,300.00                    | 7,202.57            | 7,188.77            | 7,188.77            | 26.85           | 145.59      | 66.41                 | 1,387.93                          | 372.48     | 733.47               | 561.06                | 172.41                  | 4.254             | Alert                                                                           |         |                            |  |
| 7,400.00                    | 7,301.06            | 7,287.26            | 7,287.26            | 27.23           | 147.58      | 67.55                 | 1,387.93                          | 372.48     | 726.62               | 551.84                | 174.78                  | 4.157             | Alert                                                                           |         |                            |  |
| 7,500.00                    | 7,399.97            | 7,386.17            | 7,386.17            | 27.61           | 149.58      | 68.54                 | 1,387.93                          | 372.48     | 721.07               | 543.91                | 177.16                  | 4.070             | Alert                                                                           |         |                            |  |
| 7,600.00                    | 7,499.23            | 7,485.43            | 7,485.43            | 27.98           | 151.58      | 69.37                 | 1,387.93                          | 372.48     | 716.70               | 537.16                | 179.53                  | 3.992             | Alert                                                                           |         |                            |  |
| 7,700.00                    | 7,598.77            | 7,584.97            | 7,584.97            | 28.34           | 153.59      | 70.04                 | 1,387.93                          | 372.48     | 713.39               | 531.48                | 181.91                  | 3.922             | Alert                                                                           |         |                            |  |
| 7,800.00                    | 7,698.53            | 7,684.73            | 7,684.73            | 28.70           | 155.61      | 70.53                 | 1,387.93                          | 372.48     | 711.06               | 526.78                | 184.28                  | 3.859             | Alert                                                                           |         |                            |  |
| 7,900.00                    | 7,798.44            | 7,784.64            | 7,784.64            | 29.05           | 157.62      | 70.83                 | 1,387.93                          | 372.48     | 709.64               | 522.99                | 186.65                  | 3.802             | Alert                                                                           |         |                            |  |
| 8,000.00                    | 7,898.42            | 7,884.62            | 7,884.62            | 29.39           | 159.64      | 70.95                 | 1,387.93                          | 372.48     | 709.09               | 520.08                | 189.01                  | 3.752             | Alert                                                                           |         |                            |  |
| 8,013.58                    | 7,912.00            | 7,898.20            | 7,898.20            | 29.43           | 159.92      | 58.17                 | 1,387.93                          | 372.48     | 709.09               | 519.75                | 189.33                  | 3.745             | Alert                                                                           |         |                            |  |
| 8,100.00                    | 7,998.42            | 7,984.62            | 7,984.62            | 29.73           | 161.66      | 58.17                 | 1,387.93                          | 372.48     | 709.09               | 517.72                | 191.37                  | 3.705             | Alert                                                                           |         |                            |  |
| 8,200.00                    | 8,098.42            | 8,084.62            | 8,084.62            | 30.07           | 163.68      | 58.17                 | 1,387.93                          | 372.48     | 709.09               | 515.36                | 193.73                  | 3.660             | Alert                                                                           |         |                            |  |
| 8,300.00                    | 8,198.42            | 8,184.62            | 8,184.62            | 30.41           | 165.70      | 58.17                 | 1,387.93                          | 372.48     | 709.09               | 513.00                | 196.09                  | 3.616             | Alert                                                                           |         |                            |  |
| 8,363.62                    | 8,262.04            | 8,248.24            | 8,248.24            | 30.62           | 166.98      | 58.17                 | 1,387.93                          | 372.48     | 709.09               | 511.49                | 197.59                  | 3.589             | Alert                                                                           |         |                            |  |
| 8,400.00                    | 8,298.40            | 8,284.60            | 8,284.60            | 30.75           | 167.72      | -31.58                | 1,387.93                          | 372.48     | 708.10               | 509.65                | 198.45                  | 3.568             | Alert                                                                           |         |                            |  |
| 8,450.00                    | 8,348.10            | 8,334.30            | 8,334.30            | 30.91           | 168.72      | -32.05                | 1,387.93                          | 372.48     | 703.55               | 503.94                | 199.61                  | 3.525             | Alert                                                                           |         |                            |  |
| 8,500.00                    | 8,397.14            | 8,383.34            | 8,383.34            | 31.07           | 169.71      | -32.92                | 1,387.93                          | 372.48     | 695.36               | 494.59                | 200.77                  | 3.464             | Alert                                                                           |         |                            |  |
| 8,550.00                    | 8,445.15            | 8,431.35            | 8,431.35            | 31.23           | 170.68      | -34.22                | 1,387.93                          | 372.48     | 683.64               | 481.75                | 201.89                  | 3.386             | Alert                                                                           |         |                            |  |
| 8,600.00                    | 8,491.77            | 8,477.97            | 8,477.97            | 31.38           | 171.63      | -35.99                | 1,387.93                          | 372.48     | 668.56               | 465.57                | 202.99                  | 3.294             | Alert                                                                           |         |                            |  |
| 8,650.00                    | 8,536.65            | 8,522.85            | 8,522.85            | 31.52           | 172.53      | -38.28                | 1,387.93                          | 372.48     | 650.34               | 446.30                | 204.04                  | 3.187             | Alert                                                                           |         |                            |  |
| 8,700.00                    | 8,579.43            | 8,565.63            | 8,565.63            | 31.66           | 173.40      | -41.16                | 1,387.93                          | 372.48     | 629.27               | 424.22                | 205.05                  | 3.069             | Alert                                                                           |         |                            |  |
| 8,750.00                    | 8,619.80            | 8,606.00            | 8,606.00            | 31.80           | 174.21      | -44.69                | 1,387.93                          | 372.48     | 605.68               | 399.68                | 206.00                  | 2.940             | Alert                                                                           |         |                            |  |
| 8,800.00                    | 8,657.44            | 8,643.64            | 8,643.64            | 31.93           | 174.97      | -48.90                | 1,387.93                          | 372.48     | 580.01               | 373.12                | 206.90                  | 2.803             | Alert                                                                           |         |                            |  |
| 8,850.00                    | 8,692.08            | 8,678.28            | 8,678.28            | 32.06           | 175.67      | -53.79                | 1,387.93                          | 372.48     | 552.75               | 345.03                | 207.73                  | 2.661             | Alert                                                                           |         |                            |  |
| 8,900.00                    | 8,723.44            | 8,709.64            | 8,709.64            | 32.19           | 176.30      | -59.26                | 1,387.93                          | 372.48     | 524.51               | 316.02                | 208.49                  | 2.516             | Alert                                                                           |         |                            |  |
| 8,950.00                    | 8,751.29            | 8,737.49            | 8,737.49            | 32.34           | 176.87      | -65.12                | 1,387.93                          | 372.48     | 495.98               | 286.79                | 209.19                  | 2.371             | Minor Risk                                                                      |         |                            |  |
| 9,000.00                    | 8,775.42            | 8,761.62            | 8,761.62            | 32.50           | 177.35      | -71.06                | 1,387.93                          | 372.48     | 468.01               | 258.17                | 209.84                  | 2.230             | Minor Risk                                                                      |         |                            |  |
| 9,050.00                    | 8,795.64            | 8,781.84            | 8,781.84            | 32.67           | 177.76      | -76.69                | 1,387.93                          | 372.48     | 441.54               | 231.12                | 210.42                  | 2.098             | Minor Risk                                                                      |         |                            |  |
| 9,100.00                    | 8,811.80            | 8,798.00            | 8,798.00            | 32.87           | 178.09      | -81.64                | 1,387.93                          | 372.48     | 417.67               | 206.73                | 210.94                  | 1.980             | Minor Risk                                                                      |         |                            |  |
| 9,150.00                    | 8,823.77            | 8,809.97            | 8,809.97            | 33.10           | 178.33      | -85.60                | 1,387.93                          | 372.48     | 397.57               | 186.15                | 211.42                  | 1.880             | Minor Risk                                                                      |         |                            |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft  |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|----------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 10.00 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning  |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |          |
| 9,200.00                    | 8,831.47            | 8,817.67            | 8,817.67            | 33.34           | 178.49      | -88.37                | 1,387.93                          | 372.48     | 382.38               | 170.56                | 211.82                  | 1.805             | Minor Risk         |          |
| 9,250.00                    | 8,834.84            | 8,821.04            | 8,821.04            | 33.60           | 178.55      | -89.83                | 1,387.93                          | 372.48     | 373.10               | 160.95                | 212.15                  | 1.759             | Minor Risk         |          |
| 9,263.62                    | 8,835.00            | 8,821.20            | 8,821.20            | 33.67           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 371.69               | 159.47                | 212.22                  | 1.751             | Minor Risk         |          |
| 9,295.36                    | 8,835.00            | 8,821.20            | 8,821.20            | 33.85           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 370.33               | 157.96                | 212.38                  | 1.744             | Minor Risk, CC, ES |          |
| 9,300.00                    | 8,835.00            | 8,821.20            | 8,821.20            | 33.88           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 370.36               | 157.96                | 212.40                  | 1.744             | Minor Risk, SF     |          |
| 9,400.00                    | 8,835.00            | 8,821.20            | 8,821.20            | 34.53           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 384.83               | 172.04                | 212.79                  | 1.809             | Minor Risk         |          |
| 9,500.00                    | 8,835.00            | 8,821.20            | 8,821.20            | 35.30           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 423.11               | 210.14                | 212.97                  | 1.987             | Minor Risk         |          |
| 9,600.00                    | 8,835.00            | 8,821.20            | 8,821.20            | 36.17           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 479.53               | 266.54                | 212.99                  | 2.251             | Minor Risk         |          |
| 9,700.00                    | 8,835.00            | 8,821.20            | 8,821.20            | 37.13           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 548.53               | 335.60                | 212.92                  | 2.576             | Alert              |          |
| 9,800.00                    | 8,835.00            | 8,821.20            | 8,821.20            | 38.18           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 625.95               | 413.12                | 212.83                  | 2.941             | Alert              |          |
| 9,900.00                    | 8,835.00            | 8,821.20            | 8,821.20            | 39.31           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 709.04               | 496.30                | 212.74                  | 3.333             | Alert              |          |
| 10,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 40.51           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 796.03               | 583.38                | 212.66                  | 3.743             | Alert              |          |
| 10,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 41.78           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 885.77               | 673.19                | 212.59                  | 4.167             | Alert              |          |
| 10,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 43.10           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 977.51               | 764.98                | 212.53                  | 4.599             | Alert              |          |
| 10,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 44.49           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,070.73             | 858.24                | 212.48                  | 5.039             |                    |          |
| 10,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 45.92           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,165.07             | 952.62                | 212.44                  | 5.484             |                    |          |
| 10,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 47.39           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,260.28             | 1,047.87              | 212.41                  | 5.933             |                    |          |
| 10,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 48.91           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,356.19             | 1,143.79              | 212.39                  | 6.385             |                    |          |
| 10,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 50.47           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,452.64             | 1,240.27              | 212.37                  | 6.840             |                    |          |
| 10,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 52.06           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,549.55             | 1,337.19              | 212.36                  | 7.297             |                    |          |
| 10,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 53.68           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,646.82             | 1,434.47              | 212.35                  | 7.755             |                    |          |
| 11,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 55.32           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,744.41             | 1,532.06              | 212.35                  | 8.215             |                    |          |
| 11,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 57.00           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,842.25             | 1,629.90              | 212.35                  | 8.676             |                    |          |
| 11,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 58.70           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 1,940.31             | 1,727.96              | 212.35                  | 9.137             |                    |          |
| 11,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 60.41           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,038.56             | 1,826.21              | 212.36                  | 9.600             |                    |          |
| 11,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 62.15           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,136.98             | 1,924.61              | 212.37                  | 10.063            |                    |          |
| 11,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 63.91           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,235.53             | 2,023.16              | 212.38                  | 10.526            |                    |          |
| 11,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 65.69           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,334.21             | 2,121.82              | 212.39                  | 10.990            |                    |          |
| 11,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 67.47           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,432.99             | 2,220.59              | 212.40                  | 11.455            |                    |          |
| 11,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 69.28           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,531.87             | 2,319.46              | 212.42                  | 11.919            |                    |          |
| 11,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 71.09           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,630.84             | 2,418.40              | 212.43                  | 12.384            |                    |          |
| 12,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 72.92           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,729.88             | 2,517.43              | 212.45                  | 12.849            |                    |          |
| 12,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 74.76           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,828.99             | 2,616.51              | 212.48                  | 13.314            |                    |          |
| 12,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 76.61           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 2,928.16             | 2,715.66              | 212.50                  | 13.780            |                    |          |
| 12,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 78.47           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,027.38             | 2,814.86              | 212.52                  | 14.245            |                    |          |
| 12,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 80.34           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,126.65             | 2,914.11              | 212.55                  | 14.710            |                    |          |
| 12,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 82.22           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,225.97             | 3,013.40              | 212.57                  | 15.176            |                    |          |
| 12,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 84.11           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,325.33             | 3,112.73              | 212.60                  | 15.641            |                    |          |
| 12,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 86.00           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,424.73             | 3,212.10              | 212.63                  | 16.107            |                    |          |
| 12,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 87.90           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,524.16             | 3,311.50              | 212.66                  | 16.572            |                    |          |
| 12,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 89.81           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,623.62             | 3,410.93              | 212.69                  | 17.037            |                    |          |
| 13,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 91.72           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,723.11             | 3,510.38              | 212.72                  | 17.502            |                    |          |
| 13,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 93.64           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,822.62             | 3,609.87              | 212.76                  | 17.967            |                    |          |
| 13,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 95.56           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 3,922.17             | 3,709.37              | 212.79                  | 18.432            |                    |          |
| 13,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 97.49           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,021.73             | 3,808.90              | 212.83                  | 18.897            |                    |          |
| 13,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 99.42           | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,121.32             | 3,908.45              | 212.87                  | 19.361            |                    |          |
| 13,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 101.36          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,220.92             | 4,008.02              | 212.90                  | 19.826            |                    |          |
| 13,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 103.30          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,320.54             | 4,107.60              | 212.94                  | 20.290            |                    |          |
| 13,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 105.25          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,420.18             | 4,207.20              | 212.98                  | 20.754            |                    |          |
| 13,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 107.20          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,519.84             | 4,306.82              | 213.02                  | 21.218            |                    |          |
| 13,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 109.15          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,619.51             | 4,406.45              | 213.07                  | 21.681            |                    |          |
| 14,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 111.10          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,719.20             | 4,506.09              | 213.11                  | 22.145            |                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft  |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|----------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 10.00 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |          |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |          |
| 14,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 113.06          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,818.89             | 4,605.74              | 213.15                  | 22.608            |                    |          |
| 14,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 115.03          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 4,918.61             | 4,705.41              | 213.20                  | 23.071            |                    |          |
| 14,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 116.99          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,018.33             | 4,805.08              | 213.24                  | 23.533            |                    |          |
| 14,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 118.96          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,118.06             | 4,904.77              | 213.29                  | 23.996            |                    |          |
| 14,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 120.93          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,217.80             | 5,004.47              | 213.34                  | 24.458            |                    |          |
| 14,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 122.90          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,317.55             | 5,104.17              | 213.39                  | 24.920            |                    |          |
| 14,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 124.88          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,417.32             | 5,203.88              | 213.44                  | 25.382            |                    |          |
| 14,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 126.86          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,517.09             | 5,303.60              | 213.49                  | 25.843            |                    |          |
| 14,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 128.84          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,616.87             | 5,403.33              | 213.54                  | 26.304            |                    |          |
| 15,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 130.82          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,716.65             | 5,503.06              | 213.59                  | 26.765            |                    |          |
| 15,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 132.80          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,816.45             | 5,602.80              | 213.64                  | 27.225            |                    |          |
| 15,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 134.79          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 5,916.25             | 5,702.55              | 213.70                  | 27.685            |                    |          |
| 15,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 136.78          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,016.05             | 5,802.30              | 213.75                  | 28.145            |                    |          |
| 15,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 138.76          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,115.87             | 5,902.06              | 213.81                  | 28.605            |                    |          |
| 15,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 140.76          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,215.69             | 6,001.82              | 213.86                  | 29.064            |                    |          |
| 15,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 142.75          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,315.51             | 6,101.59              | 213.92                  | 29.523            |                    |          |
| 15,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 144.74          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,415.34             | 6,201.36              | 213.98                  | 29.981            |                    |          |
| 15,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 146.74          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,515.18             | 6,301.14              | 214.04                  | 30.440            |                    |          |
| 15,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 148.73          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,615.02             | 6,400.92              | 214.10                  | 30.897            |                    |          |
| 16,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 150.73          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,714.86             | 6,500.71              | 214.16                  | 31.355            |                    |          |
| 16,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 152.73          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,814.71             | 6,600.50              | 214.22                  | 31.812            |                    |          |
| 16,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 154.73          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 6,914.57             | 6,700.29              | 214.28                  | 32.269            |                    |          |
| 16,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 156.73          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,014.43             | 6,800.08              | 214.34                  | 32.725            |                    |          |
| 16,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 158.74          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,114.29             | 6,899.88              | 214.41                  | 33.181            |                    |          |
| 16,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 160.74          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,214.16             | 6,999.68              | 214.47                  | 33.637            |                    |          |
| 16,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 162.74          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,314.03             | 7,099.49              | 214.54                  | 34.092            |                    |          |
| 16,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 164.75          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,413.90             | 7,199.30              | 214.60                  | 34.547            |                    |          |
| 16,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 166.76          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,513.78             | 7,299.11              | 214.67                  | 35.002            |                    |          |
| 16,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 168.77          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,613.66             | 7,398.92              | 214.74                  | 35.456            |                    |          |
| 17,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 170.77          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,713.54             | 7,498.73              | 214.80                  | 35.910            |                    |          |
| 17,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 172.78          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,813.42             | 7,598.55              | 214.87                  | 36.363            |                    |          |
| 17,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 174.79          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 7,913.31             | 7,698.37              | 214.94                  | 36.816            |                    |          |
| 17,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 176.81          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,013.21             | 7,798.19              | 215.01                  | 37.268            |                    |          |
| 17,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 178.82          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,113.10             | 7,898.02              | 215.09                  | 37.720            |                    |          |
| 17,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 180.83          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,213.00             | 7,997.84              | 215.16                  | 38.172            |                    |          |
| 17,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 182.84          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,312.90             | 8,097.67              | 215.23                  | 38.623            |                    |          |
| 17,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 184.86          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,412.80             | 8,197.50              | 215.30                  | 39.074            |                    |          |
| 17,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 186.87          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,512.70             | 8,297.33              | 215.38                  | 39.525            |                    |          |
| 17,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 188.89          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,612.61             | 8,397.16              | 215.45                  | 39.975            |                    |          |
| 18,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 190.91          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,712.52             | 8,496.99              | 215.53                  | 40.424            |                    |          |
| 18,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 192.92          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,812.43             | 8,596.83              | 215.60                  | 40.873            |                    |          |
| 18,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 194.94          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 8,912.34             | 8,696.66              | 215.68                  | 41.322            |                    |          |
| 18,300.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 196.96          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,012.26             | 8,796.50              | 215.76                  | 41.770            |                    |          |
| 18,400.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 198.98          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,112.17             | 8,896.34              | 215.84                  | 42.218            |                    |          |
| 18,500.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 201.00          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,212.09             | 8,996.18              | 215.91                  | 42.665            |                    |          |
| 18,600.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 203.02          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,312.01             | 9,096.02              | 215.99                  | 43.112            |                    |          |
| 18,700.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 205.04          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,411.93             | 9,195.86              | 216.07                  | 43.559            |                    |          |
| 18,800.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 207.06          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,511.86             | 9,295.70              | 216.16                  | 44.005            |                    |          |
| 18,900.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 209.08          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,611.78             | 9,395.54              | 216.24                  | 44.450            |                    |          |
| 19,000.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 211.10          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,711.71             | 9,495.39              | 216.32                  | 44.895            |                    |          |
| 19,100.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 213.12          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,811.64             | 9,595.23              | 216.40                  | 45.340            |                    |          |
| 19,200.00                   | 8,835.00            | 8,821.20            | 8,821.20            | 215.15          | 178.56      | -90.00                | 1,387.93                          | 372.48     | 9,911.56             | 9,695.08              | 216.48                  | 45.784            |                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                       | 0.00                | 11.50               | 11.50               | 0.50            | 0.50        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             |                       |                         |                   |                    |         |
| 100.00                     | 100.00              | 111.50              | 111.50              | 0.52            | 0.53        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,557.66              | 1.05                    | 1,487.726         |                    |         |
| 200.00                     | 200.00              | 211.50              | 211.50              | 0.70            | 0.73        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,557.27              | 1.43                    | 1,087.164         |                    |         |
| 300.00                     | 300.00              | 311.50              | 311.50              | 0.99            | 1.02        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,556.70              | 2.01                    | 775.310           |                    |         |
| 400.00                     | 400.00              | 411.50              | 411.50              | 1.31            | 1.35        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,556.05              | 2.66                    | 586.781           |                    |         |
| 500.00                     | 500.00              | 511.50              | 511.50              | 1.65            | 1.69        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,555.38              | 3.33                    | 467.870           |                    |         |
| 600.00                     | 600.00              | 611.50              | 611.50              | 1.99            | 2.03        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,554.69              | 4.02                    | 387.629           |                    |         |
| 700.00                     | 700.00              | 711.50              | 711.50              | 2.34            | 2.38        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,553.99              | 4.72                    | 330.310           |                    |         |
| 800.00                     | 800.00              | 811.50              | 811.50              | 2.69            | 2.73        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,553.29              | 5.42                    | 287.494           |                    |         |
| 900.00                     | 900.00              | 911.50              | 911.50              | 3.04            | 3.08        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,552.58              | 6.13                    | 254.368           |                    |         |
| 1,000.00                   | 1,000.00            | 1,011.50            | 1,011.50            | 3.40            | 3.44        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,551.87              | 6.84                    | 228.011           |                    |         |
| 1,100.00                   | 1,100.00            | 1,111.50            | 1,111.50            | 3.75            | 3.79        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,551.16              | 7.55                    | 206.559           |                    |         |
| 1,200.00                   | 1,200.00            | 1,211.50            | 1,211.50            | 4.11            | 4.15        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,550.45              | 8.26                    | 188.769           |                    |         |
| 1,300.00                   | 1,300.00            | 1,311.50            | 1,311.50            | 4.46            | 4.51        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,549.74              | 8.97                    | 173.782           |                    |         |
| 1,400.00                   | 1,400.00            | 1,411.50            | 1,411.50            | 4.82            | 4.86        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,549.02              | 9.68                    | 160.988           |                    |         |
| 1,500.00                   | 1,500.00            | 1,511.50            | 1,511.50            | 5.18            | 5.22        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,548.31              | 10.40                   | 149.941           |                    |         |
| 1,600.00                   | 1,600.00            | 1,611.50            | 1,611.50            | 5.53            | 5.58        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,547.60              | 11.11                   | 140.306           |                    |         |
| 1,700.00                   | 1,700.00            | 1,711.50            | 1,711.50            | 5.89            | 5.93        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,546.88              | 11.82                   | 131.831           |                    |         |
| 1,800.00                   | 1,800.00            | 1,811.50            | 1,811.50            | 6.25            | 6.29        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,546.17              | 12.54                   | 124.318           |                    |         |
| 1,900.00                   | 1,900.00            | 1,911.50            | 1,911.50            | 6.61            | 6.65        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,545.45              | 13.25                   | 117.613           |                    |         |
| 1,912.34                   | 1,912.34            | 1,923.84            | 1,923.84            | 6.65            | 6.69        | -0.13                 | 1,558.70                          | -3.48      | 1,558.71             | 1,545.37              | 13.34                   | 116.836           |                    |         |
| 2,000.00                   | 2,000.00            | 2,009.08            | 2,009.08            | 6.96            | 7.00        | -0.13                 | 1,558.71                          | -3.48      | 1,558.72             | 1,544.76              | 13.96                   | 111.663           |                    |         |
| 2,100.00                   | 2,099.99            | 2,088.04            | 2,088.04            | 7.32            | 7.28        | 12.65                 | 1,559.37                          | -3.62      | 1,558.69             | 1,544.10              | 14.60                   | 106.779           |                    |         |
| 2,200.00                   | 2,199.96            | 2,167.00            | 2,166.98            | 7.68            | 7.56        | 12.66                 | 1,561.09                          | -3.97      | 1,558.32             | 1,543.09              | 15.23                   | 102.298           |                    |         |
| 2,300.00                   | 2,299.86            | 2,245.96            | 2,245.89            | 8.04            | 7.84        | 12.67                 | 1,563.87                          | -4.55      | 1,557.59             | 1,541.73              | 15.87                   | 98.169            |                    |         |
| 2,400.00                   | 2,399.68            | 2,324.94            | 2,324.76            | 8.39            | 8.12        | 12.68                 | 1,567.72                          | -5.35      | 1,556.51             | 1,540.02              | 16.50                   | 94.349            |                    |         |
| 2,500.00                   | 2,499.37            | 2,403.92            | 2,403.58            | 8.75            | 8.41        | 12.69                 | 1,572.64                          | -6.37      | 1,555.08             | 1,537.95              | 17.13                   | 90.803            |                    |         |
| 2,600.00                   | 2,598.90            | 2,482.92            | 2,482.34            | 9.11            | 8.69        | 12.71                 | 1,578.62                          | -7.62      | 1,553.30             | 1,535.54              | 17.75                   | 87.499            |                    |         |
| 2,700.00                   | 2,698.26            | 2,561.93            | 2,561.03            | 9.46            | 8.97        | 12.74                 | 1,585.66                          | -9.08      | 1,551.16             | 1,532.78              | 18.38                   | 84.411            |                    |         |
| 2,800.00                   | 2,797.40            | 2,640.96            | 2,639.62            | 9.82            | 9.25        | 12.76                 | 1,593.77                          | -10.76     | 1,548.67             | 1,529.67              | 19.00                   | 81.517            |                    |         |
| 2,900.00                   | 2,896.30            | 2,720.01            | 2,718.12            | 10.18           | 9.54        | 12.80                 | 1,602.94                          | -12.67     | 1,545.83             | 1,526.21              | 19.62                   | 78.796            |                    |         |
| 3,000.00                   | 2,994.93            | 2,800.00            | 2,797.40            | 10.54           | 9.82        | 12.83                 | 1,613.30                          | -14.82     | 1,542.64             | 1,522.40              | 20.24                   | 76.214            |                    |         |
| 3,100.00                   | 3,093.26            | 2,878.20            | 2,874.76            | 10.90           | 10.10       | 12.87                 | 1,624.47                          | -17.14     | 1,539.10             | 1,518.25              | 20.85                   | 73.805            |                    |         |
| 3,195.07                   | 3,186.42            | 2,953.43            | 2,949.04            | 11.24           | 10.37       | 12.91                 | 1,636.19                          | -19.58     | 1,535.41             | 1,513.98              | 21.44                   | 71.618            |                    |         |
| 3,200.00                   | 3,191.25            | 2,957.34            | 2,952.89            | 11.26           | 10.38       | 12.91                 | 1,636.83                          | -19.71     | 1,535.22             | 1,513.75              | 21.47                   | 71.507            |                    |         |
| 3,300.00                   | 3,289.08            | 3,036.53            | 3,030.89            | 11.62           | 10.67       | 12.95                 | 1,650.25                          | -22.50     | 1,531.91             | 1,509.83              | 22.08                   | 69.368            |                    |         |
| 3,400.00                   | 3,386.91            | 3,120.30            | 3,108.24            | 11.98           | 10.97       | 12.97                 | 1,664.64                          | -25.49     | 1,529.97             | 1,507.25              | 22.71                   | 67.360            |                    |         |
| 3,500.00                   | 3,484.74            | 3,215.26            | 3,206.34            | 12.35           | 11.31       | 12.99                 | 1,683.62                          | -29.43     | 1,528.73             | 1,505.30              | 23.43                   | 65.260            |                    |         |
| 3,600.00                   | 3,582.58            | 3,315.25            | 3,304.43            | 12.72           | 11.67       | 13.02                 | 1,702.60                          | -33.37     | 1,527.49             | 1,503.33              | 24.16                   | 63.229            |                    |         |
| 3,700.00                   | 3,680.41            | 3,415.24            | 3,402.52            | 13.09           | 12.04       | 13.04                 | 1,721.58                          | -37.32     | 1,526.25             | 1,501.36              | 24.89                   | 61.312            |                    |         |
| 3,800.00                   | 3,778.24            | 3,515.23            | 3,500.62            | 13.46           | 12.40       | 13.07                 | 1,740.56                          | -41.26     | 1,525.02             | 1,499.38              | 25.63                   | 59.499            |                    |         |
| 3,900.00                   | 3,876.08            | 3,615.22            | 3,598.71            | 13.83           | 12.77       | 13.09                 | 1,759.54                          | -45.20     | 1,523.78             | 1,497.41              | 26.37                   | 57.784            |                    |         |
| 4,000.00                   | 3,973.91            | 3,715.21            | 3,696.80            | 14.21           | 13.14       | 13.12                 | 1,778.51                          | -49.14     | 1,522.54             | 1,495.43              | 27.11                   | 56.158            |                    |         |
| 4,100.00                   | 4,071.74            | 3,815.20            | 3,794.90            | 14.58           | 13.51       | 13.14                 | 1,797.49                          | -53.09     | 1,521.31             | 1,493.45              | 27.85                   | 54.616            |                    |         |
| 4,200.00                   | 4,169.57            | 3,915.19            | 3,892.99            | 14.96           | 13.88       | 13.17                 | 1,816.47                          | -57.03     | 1,520.07             | 1,491.47              | 28.60                   | 53.150            |                    |         |
| 4,300.00                   | 4,267.41            | 4,015.18            | 3,991.08            | 15.33           | 14.25       | 13.19                 | 1,835.45                          | -60.97     | 1,518.83             | 1,489.49              | 29.35                   | 51.757            |                    |         |
| 4,400.00                   | 4,365.24            | 4,115.18            | 4,089.18            | 15.71           | 14.63       | 13.21                 | 1,854.43                          | -64.91     | 1,517.60             | 1,487.50              | 30.09                   | 50.430            |                    |         |
| 4,500.00                   | 4,463.07            | 4,215.17            | 4,187.27            | 16.09           | 15.00       | 13.24                 | 1,873.41                          | -68.86     | 1,516.36             | 1,485.52              | 30.84                   | 49.166            |                    |         |
| 4,600.00                   | 4,560.90            | 4,315.16            | 4,285.36            | 16.47           | 15.37       | 13.26                 | 1,892.38                          | -72.80     | 1,515.13             | 1,483.54              | 31.59                   | 47.960            |                    |         |
| 4,700.00                   | 4,658.74            | 4,415.15            | 4,383.46            | 16.85           | 15.75       | 13.29                 | 1,911.36                          | -76.74     | 1,513.89             | 1,481.55              | 32.34                   | 46.808            |                    |         |
| 4,800.00                   | 4,756.57            | 4,515.14            | 4,481.55            | 17.23           | 16.12       | 13.31                 | 1,930.34                          | -80.68     | 1,512.66             | 1,479.56              | 33.09                   | 45.707            |                    |         |
| 4,900.00                   | 4,854.40            | 4,615.13            | 4,579.65            | 17.61           | 16.50       | 13.34                 | 1,949.32                          | -84.63     | 1,511.42             | 1,477.58              | 33.85                   | 44.654            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,000.00                   | 4,952.23            | 4,715.12            | 4,677.74            | 17.99           | 16.88       | 13.36                 | 1,968.30                          | -88.57     | 1,510.19             | 1,475.59              | 34.60                   | 43.645            |                    |         |
| 5,100.00                   | 5,050.07            | 4,815.11            | 4,775.83            | 18.37           | 17.25       | 13.39                 | 1,987.28                          | -92.51     | 1,508.96             | 1,473.60              | 35.36                   | 42.678            |                    |         |
| 5,200.00                   | 5,147.90            | 4,915.10            | 4,873.93            | 18.75           | 17.63       | 13.41                 | 2,006.25                          | -96.46     | 1,507.72             | 1,471.61              | 36.11                   | 41.751            |                    |         |
| 5,300.00                   | 5,245.73            | 5,015.09            | 4,972.02            | 19.14           | 18.01       | 13.44                 | 2,025.23                          | -100.40    | 1,506.49             | 1,469.62              | 36.87                   | 40.862            |                    |         |
| 5,400.00                   | 5,343.56            | 5,115.08            | 5,070.11            | 19.52           | 18.39       | 13.46                 | 2,044.21                          | -104.34    | 1,505.26             | 1,467.63              | 37.62                   | 40.007            |                    |         |
| 5,500.00                   | 5,441.40            | 5,215.07            | 5,168.21            | 19.90           | 18.77       | 13.49                 | 2,063.19                          | -108.28    | 1,504.03             | 1,465.64              | 38.38                   | 39.185            |                    |         |
| 5,600.00                   | 5,539.23            | 5,315.06            | 5,266.30            | 20.29           | 19.15       | 13.51                 | 2,082.17                          | -112.23    | 1,502.79             | 1,463.65              | 39.14                   | 38.395            |                    |         |
| 5,700.00                   | 5,637.06            | 5,415.05            | 5,364.39            | 20.67           | 19.53       | 13.54                 | 2,101.15                          | -116.17    | 1,501.56             | 1,461.66              | 39.90                   | 37.634            |                    |         |
| 5,800.00                   | 5,734.90            | 5,515.04            | 5,462.49            | 21.05           | 19.91       | 13.56                 | 2,120.12                          | -120.11    | 1,500.33             | 1,459.67              | 40.66                   | 36.901            |                    |         |
| 5,900.00                   | 5,832.73            | 5,615.03            | 5,560.58            | 21.44           | 20.29       | 13.59                 | 2,139.10                          | -124.05    | 1,499.10             | 1,457.68              | 41.42                   | 36.194            |                    |         |
| 6,000.00                   | 5,930.56            | 5,715.02            | 5,658.67            | 21.83           | 20.67       | 13.61                 | 2,158.08                          | -128.00    | 1,497.87             | 1,455.69              | 42.18                   | 35.512            |                    |         |
| 6,100.00                   | 6,028.39            | 5,815.01            | 5,756.77            | 22.21           | 21.05       | 13.64                 | 2,177.06                          | -131.94    | 1,496.64             | 1,453.70              | 42.94                   | 34.855            |                    |         |
| 6,200.00                   | 6,126.23            | 5,915.00            | 5,854.86            | 22.60           | 21.43       | 13.67                 | 2,196.04                          | -135.88    | 1,495.41             | 1,451.71              | 43.70                   | 34.219            |                    |         |
| 6,300.00                   | 6,224.06            | 6,014.99            | 5,952.95            | 22.98           | 21.81       | 13.69                 | 2,215.02                          | -139.82    | 1,494.18             | 1,449.71              | 44.46                   | 33.605            |                    |         |
| 6,400.00                   | 6,321.89            | 6,114.98            | 6,051.05            | 23.37           | 22.20       | 13.72                 | 2,233.99                          | -143.77    | 1,492.95             | 1,447.72              | 45.22                   | 33.012            |                    |         |
| 6,500.00                   | 6,419.72            | 6,214.97            | 6,149.14            | 23.76           | 22.58       | 13.74                 | 2,252.97                          | -147.71    | 1,491.72             | 1,445.73              | 45.99                   | 32.438            |                    |         |
| 6,600.00                   | 6,517.56            | 6,314.96            | 6,247.23            | 24.14           | 22.96       | 13.77                 | 2,271.95                          | -151.65    | 1,490.49             | 1,443.74              | 46.75                   | 31.882            |                    |         |
| 6,700.00                   | 6,615.39            | 6,414.95            | 6,345.33            | 24.53           | 23.34       | 13.79                 | 2,290.93                          | -155.59    | 1,489.26             | 1,441.75              | 47.51                   | 31.345            |                    |         |
| 6,800.00                   | 6,713.22            | 6,514.94            | 6,443.42            | 24.92           | 23.73       | 13.82                 | 2,309.91                          | -159.54    | 1,488.03             | 1,439.76              | 48.28                   | 30.823            |                    |         |
| 6,900.00                   | 6,811.05            | 6,614.93            | 6,541.51            | 25.30           | 24.11       | 13.84                 | 2,328.89                          | -163.48    | 1,486.80             | 1,437.76              | 49.04                   | 30.318            |                    |         |
| 7,000.00                   | 6,908.89            | 6,714.92            | 6,639.61            | 25.69           | 24.49       | 13.87                 | 2,347.86                          | -167.42    | 1,485.57             | 1,435.77              | 49.80                   | 29.829            |                    |         |
| 7,100.00                   | 7,006.72            | 6,814.91            | 6,737.70            | 26.08           | 24.88       | 13.90                 | 2,366.84                          | -171.36    | 1,484.35             | 1,433.78              | 50.57                   | 29.354            |                    |         |
| 7,200.00                   | 7,104.55            | 6,914.90            | 6,835.79            | 26.47           | 25.26       | 13.92                 | 2,385.82                          | -175.31    | 1,483.12             | 1,431.79              | 51.33                   | 28.892            |                    |         |
| 7,216.87                   | 7,121.05            | 6,931.77            | 6,852.34            | 26.53           | 25.32       | 13.93                 | 2,389.02                          | -175.97    | 1,482.91             | 1,431.45              | 51.46                   | 28.816            |                    |         |
| 7,265.16                   | 7,168.36            | 6,980.06            | 6,899.72            | 26.72           | 25.51       | 13.93                 | 2,398.19                          | -177.88    | 1,482.62             | 1,430.79              | 51.83                   | 28.605 CC         |                    |         |
| 7,300.00                   | 7,202.57            | 7,014.90            | 6,933.89            | 26.85           | 25.64       | 13.94                 | 2,404.80                          | -179.25    | 1,482.77             | 1,430.67              | 52.10                   | 28.462            |                    |         |
| 7,400.00                   | 7,301.06            | 7,114.87            | 7,031.97            | 27.23           | 26.03       | 13.94                 | 2,423.78                          | -183.19    | 1,484.93             | 1,432.07              | 52.85                   | 28.094            |                    |         |
| 7,500.00                   | 7,399.97            | 7,214.76            | 7,129.96            | 27.61           | 26.41       | 13.93                 | 2,442.73                          | -187.13    | 1,489.62             | 1,436.01              | 53.61                   | 27.787            |                    |         |
| 7,600.00                   | 7,499.23            | 7,314.48            | 7,227.79            | 27.98           | 26.79       | 13.90                 | 2,461.66                          | -191.06    | 1,496.85             | 1,442.50              | 54.36                   | 27.538            |                    |         |
| 7,700.00                   | 7,598.77            | 7,413.98            | 7,325.40            | 28.34           | 27.18       | 13.85                 | 2,480.55                          | -194.99    | 1,506.62             | 1,451.52              | 55.10                   | 27.345            |                    |         |
| 7,800.00                   | 7,698.53            | 7,513.18            | 7,422.73            | 28.70           | 27.56       | 13.80                 | 2,499.38                          | -198.90    | 1,518.92             | 1,463.09              | 55.83                   | 27.206            |                    |         |
| 7,900.00                   | 7,798.44            | 7,612.02            | 7,519.69            | 29.05           | 27.94       | 13.73                 | 2,518.14                          | -202.79    | 1,533.74             | 1,477.18              | 56.56                   | 27.119            |                    |         |
| 8,000.00                   | 7,898.42            | 7,710.43            | 7,616.23            | 29.39           | 28.32       | 13.65                 | 2,536.82                          | -206.68    | 1,551.08             | 1,493.80              | 57.27                   | 27.082            |                    |         |
| 8,013.58                   | 7,912.00            | 7,723.76            | 7,629.30            | 29.43           | 28.37       | 0.86                  | 2,539.34                          | -207.20    | 1,553.62             | 1,496.25              | 57.37                   | 27.080            |                    |         |
| 8,100.00                   | 7,998.42            | 7,808.54            | 7,712.48            | 29.73           | 28.69       | 0.72                  | 2,555.44                          | -210.54    | 1,569.99             | 1,512.01              | 57.99                   | 27.076            |                    |         |
| 8,200.00                   | 8,098.42            | 7,906.64            | 7,808.72            | 30.07           | 29.07       | 0.57                  | 2,574.06                          | -214.41    | 1,588.94             | 1,530.25              | 58.70                   | 27.070            |                    |         |
| 8,300.00                   | 8,198.42            | 8,004.74            | 7,904.96            | 30.41           | 29.45       | 0.43                  | 2,592.68                          | -218.28    | 1,607.90             | 1,548.50              | 59.41                   | 27.065            |                    |         |
| 8,363.62                   | 8,262.04            | 8,067.16            | 7,966.19            | 30.62           | 29.69       | 0.33                  | 2,604.52                          | -220.74    | 1,619.97             | 1,560.11              | 59.86                   | 27.062            |                    |         |
| 8,400.00                   | 8,298.40            | 8,102.78            | 8,001.14            | 30.75           | 29.83       | -88.72                | 2,611.28                          | -222.15    | 1,626.86             | 1,566.74              | 60.12                   | 27.061            |                    |         |
| 8,450.00                   | 8,348.10            | 8,151.33            | 8,048.77            | 30.91           | 30.01       | -88.02                | 2,620.50                          | -224.06    | 1,636.25             | 1,575.79              | 60.46                   | 27.063            |                    |         |
| 8,500.00                   | 8,397.14            | 8,200.93            | 8,095.60            | 31.07           | 30.20       | -87.47                | 2,629.56                          | -225.94    | 1,645.56             | 1,584.75              | 60.81                   | 27.062            |                    |         |
| 8,550.00                   | 8,445.15            | 8,245.64            | 8,141.29            | 31.23           | 30.38       | -87.05                | 2,638.40                          | -227.78    | 1,654.79             | 1,593.66              | 61.13                   | 27.069            |                    |         |
| 8,600.00                   | 8,491.77            | 8,290.69            | 8,185.48            | 31.38           | 30.55       | -86.75                | 2,646.95                          | -229.55    | 1,663.99             | 1,602.53              | 61.46                   | 27.076            |                    |         |
| 8,650.00                   | 8,536.65            | 8,333.87            | 8,227.84            | 31.52           | 30.72       | -86.53                | 2,655.14                          | -231.26    | 1,673.22             | 1,611.45              | 61.77                   | 27.088            |                    |         |
| 8,700.00                   | 8,579.43            | 8,377.12            | 8,270.28            | 31.66           | 30.88       | -86.41                | 2,663.36                          | -232.78    | 1,682.57             | 1,620.49              | 62.08                   | 27.101            |                    |         |
| 8,750.00                   | 8,619.80            | 8,426.52            | 8,318.74            | 31.80           | 31.07       | -86.42                | 2,672.75                          | -231.34    | 1,691.96             | 1,629.53              | 62.44                   | 27.099            |                    |         |
| 8,800.00                   | 8,657.44            | 8,479.23            | 8,370.11            | 31.93           | 31.26       | -86.49                | 2,682.74                          | -225.12    | 1,701.29             | 1,638.48              | 62.81                   | 27.088            |                    |         |
| 8,850.00                   | 8,692.08            | 8,535.94            | 8,424.48            | 32.06           | 31.45       | -86.63                | 2,693.34                          | -213.10    | 1,710.46             | 1,647.27              | 63.19                   | 27.068            |                    |         |
| 8,900.00                   | 8,723.44            | 8,597.49            | 8,481.84            | 32.19           | 31.65       | -86.85                | 2,704.57                          | -193.92    | 1,719.38             | 1,655.79              | 63.59                   | 27.038            |                    |         |
| 8,950.00                   | 8,751.29            | 8,664.85            | 8,541.90            | 32.34           | 31.85       | -87.17                | 2,716.37                          | -165.89    | 1,727.91             | 1,663.90              | 64.00                   | 26.998            |                    |         |
| 9,000.00                   | 8,775.42            | 8,739.12            | 8,603.86            | 32.50           | 32.05       | -87.57                | 2,728.60                          | -126.91    | 1,735.88             | 1,671.46              | 64.42                   | 26.945            |                    |         |
| 9,050.00                   | 8,795.64            | 8,821.41            | 8,666.07            | 32.67           | 32.25       | -88.04                | 2,740.96                          | -74.60     | 1,743.11             | 1,678.25              | 64.86                   | 26.876            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |        | Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 331H - Wellbore #1 - Permit Plan 1 |         | Offset Site Error: 0.00 ft |  |
|----------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|--------|--------------------------------------------------------------------------------------|---------|----------------------------|--|
| Survey Program: 0-MWD+IFR1 |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |        | Offset Well Error: 0.50 ft                                                           |         |                            |  |
| Reference                  |                | Offset         |                | Semi Major Axis |        |                   | Distance               |                 |                  |                    |                   |        |                                                                                      | Warning |                            |  |
| Measured Depth             | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor |        |                                                                                      |         |                            |  |
| (ft)                       | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft)      | (ft)             | (ft)               | (ft)              |        |                                                                                      |         |                            |  |
| 9,100.00                   | 8,811.80       | 8,912.59       | 8,725.62       | 32.87           | 32.45  | -88.56            | 2,752.90               | -6.71           | 1,749.35         | 1,684.04           | 65.32             | 26.782 |                                                                                      |         |                            |  |
| 9,150.00                   | 8,823.77       | 9,012.96       | 8,778.01       | 33.10           | 32.72  | -89.07            | 2,763.55               | 78.08           | 1,754.35         | 1,688.50           | 65.84             | 26.644 |                                                                                      |         |                            |  |
| 9,200.00                   | 8,831.47       | 9,121.67       | 8,817.44       | 33.34           | 33.15  | -89.50            | 2,771.79               | 178.87          | 1,757.82         | 1,691.33           | 66.49             | 26.438 |                                                                                      |         |                            |  |
| 9,250.00                   | 8,834.84       | 9,236.36       | 8,838.02       | 33.60           | 33.71  | -89.75            | 2,776.44               | 291.42          | 1,759.54         | 1,692.25           | 67.29             | 26.147 |                                                                                      |         |                            |  |
| 9,263.62                   | 8,835.00       | 9,268.17       | 8,839.77       | 33.67           | 33.88  | -89.78            | 2,776.97               | 323.17          | 1,759.68         | 1,692.14           | 67.54             | 26.054 |                                                                                      |         |                            |  |
| 9,300.00                   | 8,835.00       | 9,313.89       | 8,840.00       | 33.88           | 34.15  | -89.79            | 2,777.29               | 368.89          | 1,759.70         | 1,691.68           | 68.02             | 25.870 |                                                                                      |         |                            |  |
| 9,400.00                   | 8,835.00       | 9,413.89       | 8,840.00       | 34.53           | 34.80  | -89.79            | 2,777.88               | 468.88          | 1,759.70         | 1,690.36           | 69.34             | 25.379 |                                                                                      |         |                            |  |
| 9,500.00                   | 8,835.00       | 9,513.89       | 8,840.00       | 35.30           | 35.56  | -89.79            | 2,778.47               | 568.88          | 1,759.69         | 1,688.83           | 70.87             | 24.831 |                                                                                      |         |                            |  |
| 9,600.00                   | 8,835.00       | 9,613.89       | 8,840.00       | 36.17           | 36.42  | -89.79            | 2,779.07               | 668.88          | 1,759.69         | 1,687.10           | 72.59             | 24.241 |                                                                                      |         |                            |  |
| 9,700.00                   | 8,835.00       | 9,713.89       | 8,840.00       | 37.13           | 37.37  | -89.79            | 2,779.66               | 768.88          | 1,759.69         | 1,685.18           | 74.50             | 23.618 |                                                                                      |         |                            |  |
| 9,800.00                   | 8,835.00       | 9,813.89       | 8,840.00       | 38.18           | 38.40  | -89.79            | 2,780.25               | 868.88          | 1,759.69         | 1,683.10           | 76.59             | 22.976 |                                                                                      |         |                            |  |
| 9,900.00                   | 8,835.00       | 9,913.89       | 8,840.00       | 39.31           | 39.52  | -89.79            | 2,780.85               | 968.88          | 1,759.68         | 1,680.86           | 78.83             | 22.323 |                                                                                      |         |                            |  |
| 10,000.00                  | 8,835.00       | 10,013.89      | 8,840.00       | 40.51           | 40.70  | -89.79            | 2,781.44               | 1,068.87        | 1,759.68         | 1,678.47           | 81.21             | 21.667 |                                                                                      |         |                            |  |
| 10,100.00                  | 8,835.00       | 10,113.89      | 8,840.00       | 41.78           | 41.95  | -89.79            | 2,782.04               | 1,168.87        | 1,759.68         | 1,675.95           | 83.73             | 21.016 |                                                                                      |         |                            |  |
| 10,200.00                  | 8,835.00       | 10,213.89      | 8,840.00       | 43.10           | 43.26  | -89.79            | 2,782.63               | 1,268.87        | 1,759.68         | 1,673.31           | 86.37             | 20.374 |                                                                                      |         |                            |  |
| 10,300.00                  | 8,835.00       | 10,313.89      | 8,840.00       | 44.49           | 44.63  | -89.79            | 2,783.22               | 1,368.87        | 1,759.67         | 1,670.56           | 89.12             | 19.746 |                                                                                      |         |                            |  |
| 10,400.00                  | 8,835.00       | 10,413.89      | 8,840.00       | 45.92           | 46.05  | -89.79            | 2,783.82               | 1,468.87        | 1,759.67         | 1,667.71           | 91.97             | 19.134 |                                                                                      |         |                            |  |
| 10,500.00                  | 8,835.00       | 10,513.89      | 8,840.00       | 47.39           | 47.51  | -89.79            | 2,784.41               | 1,568.87        | 1,759.67         | 1,664.77           | 94.90             | 18.542 |                                                                                      |         |                            |  |
| 10,600.00                  | 8,835.00       | 10,613.89      | 8,840.00       | 48.91           | 49.02  | -89.79            | 2,785.00               | 1,668.86        | 1,759.67         | 1,661.74           | 97.93             | 17.969 |                                                                                      |         |                            |  |
| 10,700.00                  | 8,835.00       | 10,713.89      | 8,840.00       | 50.47           | 50.56  | -89.79            | 2,785.60               | 1,768.86        | 1,759.66         | 1,658.64           | 101.02            | 17.418 |                                                                                      |         |                            |  |
| 10,800.00                  | 8,835.00       | 10,813.89      | 8,840.00       | 52.06           | 52.14  | -89.79            | 2,786.19               | 1,868.86        | 1,759.66         | 1,655.47           | 104.19            | 16.889 |                                                                                      |         |                            |  |
| 10,900.00                  | 8,835.00       | 10,913.89      | 8,840.00       | 53.68           | 53.74  | -89.79            | 2,786.78               | 1,968.86        | 1,759.66         | 1,652.24           | 107.42            | 16.381 |                                                                                      |         |                            |  |
| 11,000.00                  | 8,835.00       | 11,013.89      | 8,840.00       | 55.32           | 55.38  | -89.79            | 2,787.38               | 2,068.86        | 1,759.66         | 1,648.95           | 110.70            | 15.895 |                                                                                      |         |                            |  |
| 11,100.00                  | 8,835.00       | 11,113.89      | 8,840.00       | 57.00           | 57.05  | -89.79            | 2,787.97               | 2,168.85        | 1,759.65         | 1,645.61           | 114.04            | 15.430 |                                                                                      |         |                            |  |
| 11,200.00                  | 8,835.00       | 11,213.89      | 8,840.00       | 58.70           | 58.73  | -89.79            | 2,788.56               | 2,268.85        | 1,759.65         | 1,642.22           | 117.43            | 14.985 |                                                                                      |         |                            |  |
| 11,300.00                  | 8,835.00       | 11,313.89      | 8,840.00       | 60.41           | 60.44  | -89.79            | 2,789.16               | 2,368.85        | 1,759.65         | 1,638.79           | 120.86            | 14.560 |                                                                                      |         |                            |  |
| 11,400.00                  | 8,835.00       | 11,413.89      | 8,840.00       | 62.15           | 62.17  | -89.79            | 2,789.75               | 2,468.85        | 1,759.65         | 1,635.32           | 124.33            | 14.153 |                                                                                      |         |                            |  |
| 11,500.00                  | 8,835.00       | 11,513.89      | 8,840.00       | 63.91           | 63.92  | -89.79            | 2,790.34               | 2,568.85        | 1,759.64         | 1,631.81           | 127.83            | 13.765 |                                                                                      |         |                            |  |
| 11,600.00                  | 8,835.00       | 11,613.89      | 8,840.00       | 65.69           | 65.69  | -89.79            | 2,790.94               | 2,668.85        | 1,759.64         | 1,628.27           | 131.37            | 13.394 |                                                                                      |         |                            |  |
| 11,700.00                  | 8,835.00       | 11,713.89      | 8,840.00       | 67.47           | 67.47  | -89.79            | 2,791.53               | 2,768.84        | 1,759.64         | 1,624.69           | 134.95            | 13.040 |                                                                                      |         |                            |  |
| 11,800.00                  | 8,835.00       | 11,813.89      | 8,840.00       | 69.28           | 69.27  | -89.79            | 2,792.12               | 2,868.84        | 1,759.64         | 1,621.09           | 138.55            | 12.701 |                                                                                      |         |                            |  |
| 11,900.00                  | 8,835.00       | 11,913.89      | 8,840.00       | 71.09           | 71.08  | -89.79            | 2,792.72               | 2,968.84        | 1,759.63         | 1,617.46           | 142.17            | 12.377 |                                                                                      |         |                            |  |
| 12,000.00                  | 8,835.00       | 12,013.89      | 8,840.00       | 72.92           | 72.90  | -89.79            | 2,793.31               | 3,068.84        | 1,759.63         | 1,613.81           | 145.83            | 12.067 |                                                                                      |         |                            |  |
| 12,100.00                  | 8,835.00       | 12,113.89      | 8,840.00       | 74.76           | 74.73  | -89.79            | 2,793.90               | 3,168.84        | 1,759.63         | 1,610.13           | 149.50            | 11.770 |                                                                                      |         |                            |  |
| 12,200.00                  | 8,835.00       | 12,213.89      | 8,840.00       | 76.61           | 76.58  | -89.79            | 2,794.50               | 3,268.84        | 1,759.63         | 1,606.43           | 153.20            | 11.486 |                                                                                      |         |                            |  |
| 12,300.00                  | 8,835.00       | 12,313.89      | 8,840.00       | 78.47           | 78.43  | -89.79            | 2,795.09               | 3,368.83        | 1,759.62         | 1,602.71           | 156.91            | 11.214 |                                                                                      |         |                            |  |
| 12,400.00                  | 8,835.00       | 12,413.89      | 8,840.00       | 80.34           | 80.30  | -89.79            | 2,795.68               | 3,468.83        | 1,759.62         | 1,598.98           | 160.65            | 10.953 |                                                                                      |         |                            |  |
| 12,500.00                  | 8,835.00       | 12,513.89      | 8,840.00       | 82.22           | 82.17  | -89.79            | 2,796.28               | 3,568.83        | 1,759.62         | 1,595.22           | 164.40            | 10.704 |                                                                                      |         |                            |  |
| 12,600.00                  | 8,835.00       | 12,613.89      | 8,840.00       | 84.11           | 84.05  | -89.79            | 2,796.87               | 3,668.83        | 1,759.62         | 1,591.45           | 168.16            | 10.464 |                                                                                      |         |                            |  |
| 12,700.00                  | 8,835.00       | 12,713.89      | 8,840.00       | 86.00           | 85.94  | -89.79            | 2,797.46               | 3,768.83        | 1,759.61         | 1,587.67           | 171.94            | 10.234 |                                                                                      |         |                            |  |
| 12,800.00                  | 8,835.00       | 12,813.89      | 8,840.00       | 87.90           | 87.84  | -89.79            | 2,798.06               | 3,868.83        | 1,759.61         | 1,583.87           | 175.74            | 10.013 |                                                                                      |         |                            |  |
| 12,900.00                  | 8,835.00       | 12,913.89      | 8,840.00       | 89.81           | 89.74  | -89.79            | 2,798.65               | 3,968.82        | 1,759.61         | 1,580.06           | 179.55            | 9.800  |                                                                                      |         |                            |  |
| 13,000.00                  | 8,835.00       | 13,013.89      | 8,840.00       | 91.72           | 91.65  | -89.79            | 2,799.24               | 4,068.82        | 1,759.61         | 1,576.24           | 183.37            | 9.596  |                                                                                      |         |                            |  |
| 13,100.00                  | 8,835.00       | 13,113.89      | 8,840.00       | 93.64           | 93.56  | -89.79            | 2,799.84               | 4,168.82        | 1,759.60         | 1,572.40           | 187.20            | 9.399  |                                                                                      |         |                            |  |
| 13,200.00                  | 8,835.00       | 13,213.89      | 8,840.00       | 95.56           | 95.48  | -89.79            | 2,800.43               | 4,268.82        | 1,759.60         | 1,568.56           | 191.05            | 9.210  |                                                                                      |         |                            |  |
| 13,300.00                  | 8,835.00       | 13,313.89      | 8,840.00       | 97.49           | 97.41  | -89.79            | 2,801.02               | 4,368.82        | 1,759.60         | 1,564.70           | 194.90            | 9.028  |                                                                                      |         |                            |  |
| 13,400.00                  | 8,835.00       | 13,413.89      | 8,840.00       | 99.42           | 99.33  | -89.79            | 2,801.62               | 4,468.81        | 1,759.60         | 1,560.83           | 198.76            | 8.853  |                                                                                      |         |                            |  |
| 13,500.00                  | 8,835.00       | 13,513.89      | 8,840.00       | 101.36          | 101.27 | -89.79            | 2,802.21               | 4,568.81        | 1,759.59         | 1,556.96           | 202.63            | 8.684  |                                                                                      |         |                            |  |
| 13,600.00                  | 8,835.00       | 13,613.89      | 8,840.00       | 103.30          | 103.21 | -89.79            | 2,802.80               | 4,668.81        | 1,759.59         | 1,553.08           | 206.51            | 8.520  |                                                                                      |         |                            |  |
| 13,700.00                  | 8,835.00       | 13,713.89      | 8,840.00       | 105.25          | 105.15 | -89.79            | 2,803.40               | 4,768.81        | 1,759.59         | 1,549.19           | 210.40            | 8.363  |                                                                                      |         |                            |  |
| 13,800.00                  | 8,835.00       | 13,813.89      | 8,840.00       | 107.20          | 107.10 | -89.79            | 2,803.99               | 4,868.81        | 1,759.59         | 1,545.29           | 214.30            | 8.211  |                                                                                      |         |                            |  |
| 13,900.00                  | 8,835.00       | 13,913.89      | 8,840.00       | 109.15          | 109.05 | -89.79            | 2,804.58               | 4,968.81        | 1,759.58         | 1,541.38           | 218.20            | 8.064  |                                                                                      |         |                            |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 331H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|-----------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1                                                                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                                                                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                                                                                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 14,000.00                                                                                                 | 8,835.00            | 14,013.89           | 8,840.00            | 111.10          | 111.00      | -89.79                | 2,805.18                          | 5,068.80   | 1,759.58             | 1,537.47              | 222.11                  | 7.922             |                    |         |
| 14,100.00                                                                                                 | 8,835.00            | 14,113.89           | 8,840.00            | 113.06          | 112.96      | -89.79                | 2,805.77                          | 5,168.80   | 1,759.58             | 1,533.55              | 226.03                  | 7.785             |                    |         |
| 14,200.00                                                                                                 | 8,835.00            | 14,213.89           | 8,840.00            | 115.03          | 114.92      | -89.79                | 2,806.36                          | 5,268.80   | 1,759.58             | 1,529.62              | 229.95                  | 7.652             |                    |         |
| 14,300.00                                                                                                 | 8,835.00            | 14,313.89           | 8,840.00            | 116.99          | 116.88      | -89.79                | 2,806.96                          | 5,368.80   | 1,759.57             | 1,525.69              | 233.88                  | 7.523             |                    |         |
| 14,400.00                                                                                                 | 8,835.00            | 14,413.89           | 8,840.00            | 118.96          | 118.85      | -89.79                | 2,807.55                          | 5,468.80   | 1,759.57             | 1,521.76              | 237.81                  | 7.399             |                    |         |
| 14,500.00                                                                                                 | 8,835.00            | 14,513.89           | 8,840.00            | 120.93          | 120.81      | -89.79                | 2,808.14                          | 5,568.80   | 1,759.57             | 1,517.82              | 241.75                  | 7.278             |                    |         |
| 14,600.00                                                                                                 | 8,835.00            | 14,613.89           | 8,840.00            | 122.90          | 122.79      | -89.79                | 2,808.74                          | 5,668.79   | 1,759.57             | 1,513.87              | 245.70                  | 7.162             |                    |         |
| 14,700.00                                                                                                 | 8,835.00            | 14,713.89           | 8,840.00            | 124.88          | 124.76      | -89.79                | 2,809.33                          | 5,768.79   | 1,759.56             | 1,509.92              | 249.65                  | 7.048             |                    |         |
| 14,800.00                                                                                                 | 8,835.00            | 14,813.89           | 8,840.00            | 126.86          | 126.73      | -89.79                | 2,809.93                          | 5,868.79   | 1,759.56             | 1,505.96              | 253.60                  | 6.938             |                    |         |
| 14,900.00                                                                                                 | 8,835.00            | 14,913.89           | 8,840.00            | 128.84          | 128.71      | -89.79                | 2,810.52                          | 5,968.79   | 1,759.56             | 1,502.00              | 257.56                  | 6.832             |                    |         |
| 15,000.00                                                                                                 | 8,835.00            | 15,013.89           | 8,840.00            | 130.82          | 130.69      | -89.79                | 2,811.11                          | 6,068.79   | 1,759.56             | 1,498.04              | 261.52                  | 6.728             |                    |         |
| 15,100.00                                                                                                 | 8,835.00            | 15,113.89           | 8,840.00            | 132.80          | 132.67      | -89.79                | 2,811.71                          | 6,168.78   | 1,759.55             | 1,494.07              | 265.49                  | 6.628             |                    |         |
| 15,200.00                                                                                                 | 8,835.00            | 15,213.89           | 8,840.00            | 134.79          | 134.66      | -89.79                | 2,812.30                          | 6,268.78   | 1,759.55             | 1,490.09              | 269.46                  | 6.530             |                    |         |
| 15,300.00                                                                                                 | 8,835.00            | 15,313.89           | 8,840.00            | 136.78          | 136.64      | -89.79                | 2,812.89                          | 6,368.78   | 1,759.55             | 1,486.12              | 273.43                  | 6.435             |                    |         |
| 15,400.00                                                                                                 | 8,835.00            | 15,413.89           | 8,840.00            | 138.76          | 138.63      | -89.79                | 2,813.49                          | 6,468.78   | 1,759.55             | 1,482.14              | 277.41                  | 6.343             |                    |         |
| 15,500.00                                                                                                 | 8,835.00            | 15,513.89           | 8,840.00            | 140.76          | 140.62      | -89.79                | 2,814.08                          | 6,568.78   | 1,759.54             | 1,478.16              | 281.39                  | 6.253             |                    |         |
| 15,600.00                                                                                                 | 8,835.00            | 15,613.89           | 8,840.00            | 142.75          | 142.61      | -89.79                | 2,814.67                          | 6,668.78   | 1,759.54             | 1,474.17              | 285.37                  | 6.166             |                    |         |
| 15,700.00                                                                                                 | 8,835.00            | 15,713.89           | 8,840.00            | 144.74          | 144.60      | -89.79                | 2,815.27                          | 6,768.77   | 1,759.54             | 1,470.18              | 289.36                  | 6.081             |                    |         |
| 15,800.00                                                                                                 | 8,835.00            | 15,813.89           | 8,840.00            | 146.74          | 146.60      | -89.79                | 2,815.86                          | 6,868.77   | 1,759.54             | 1,466.19              | 293.35                  | 5.998             |                    |         |
| 15,900.00                                                                                                 | 8,835.00            | 15,913.89           | 8,840.00            | 148.73          | 148.59      | -89.79                | 2,816.45                          | 6,968.77   | 1,759.53             | 1,462.20              | 297.34                  | 5.918             |                    |         |
| 16,000.00                                                                                                 | 8,835.00            | 16,013.89           | 8,840.00            | 150.73          | 150.59      | -89.79                | 2,817.05                          | 7,068.77   | 1,759.53             | 1,458.20              | 301.33                  | 5.839             |                    |         |
| 16,100.00                                                                                                 | 8,835.00            | 16,113.89           | 8,840.00            | 152.73          | 152.59      | -89.79                | 2,817.64                          | 7,168.77   | 1,759.53             | 1,454.20              | 305.33                  | 5.763             |                    |         |
| 16,200.00                                                                                                 | 8,835.00            | 16,213.89           | 8,840.00            | 154.73          | 154.59      | -89.79                | 2,818.23                          | 7,268.77   | 1,759.53             | 1,450.20              | 309.33                  | 5.688             |                    |         |
| 16,300.00                                                                                                 | 8,835.00            | 16,313.89           | 8,840.00            | 156.73          | 156.59      | -89.79                | 2,818.83                          | 7,368.76   | 1,759.52             | 1,446.19              | 313.33                  | 5.615             |                    |         |
| 16,400.00                                                                                                 | 8,835.00            | 16,413.89           | 8,840.00            | 158.74          | 158.59      | -89.79                | 2,819.42                          | 7,468.76   | 1,759.52             | 1,442.18              | 317.34                  | 5.545             |                    |         |
| 16,500.00                                                                                                 | 8,835.00            | 16,513.89           | 8,840.00            | 160.74          | 160.59      | -89.79                | 2,820.01                          | 7,568.76   | 1,759.52             | 1,438.17              | 321.35                  | 5.475             |                    |         |
| 16,600.00                                                                                                 | 8,835.00            | 16,613.89           | 8,840.00            | 162.74          | 162.60      | -89.79                | 2,820.61                          | 7,668.76   | 1,759.52             | 1,434.16              | 325.35                  | 5.408             |                    |         |
| 16,700.00                                                                                                 | 8,835.00            | 16,713.89           | 8,840.00            | 164.75          | 164.60      | -89.79                | 2,821.20                          | 7,768.76   | 1,759.51             | 1,430.15              | 329.37                  | 5.342             |                    |         |
| 16,800.00                                                                                                 | 8,835.00            | 16,813.89           | 8,840.00            | 166.76          | 166.61      | -89.79                | 2,821.79                          | 7,868.75   | 1,759.51             | 1,426.13              | 333.38                  | 5.278             |                    |         |
| 16,900.00                                                                                                 | 8,835.00            | 16,913.89           | 8,840.00            | 168.77          | 168.61      | -89.79                | 2,822.39                          | 7,968.75   | 1,759.51             | 1,422.12              | 337.39                  | 5.215             |                    |         |
| 17,000.00                                                                                                 | 8,835.00            | 17,013.89           | 8,840.00            | 170.77          | 170.62      | -89.79                | 2,822.98                          | 8,068.75   | 1,759.51             | 1,418.10              | 341.41                  | 5.154             |                    |         |
| 17,100.00                                                                                                 | 8,835.00            | 17,113.89           | 8,840.00            | 172.78          | 172.63      | -89.79                | 2,823.57                          | 8,168.75   | 1,759.50             | 1,414.08              | 345.43                  | 5.094             |                    |         |
| 17,200.00                                                                                                 | 8,835.00            | 17,213.89           | 8,840.00            | 174.79          | 174.64      | -89.79                | 2,824.17                          | 8,268.75   | 1,759.50             | 1,410.05              | 349.45                  | 5.035             |                    |         |
| 17,300.00                                                                                                 | 8,835.00            | 17,313.89           | 8,840.00            | 176.81          | 176.65      | -89.79                | 2,824.76                          | 8,368.75   | 1,759.50             | 1,406.03              | 353.47                  | 4.978 Alert       |                    |         |
| 17,400.00                                                                                                 | 8,835.00            | 17,413.89           | 8,840.00            | 178.82          | 178.66      | -89.79                | 2,825.35                          | 8,468.74   | 1,759.50             | 1,402.00              | 357.49                  | 4.922 Alert       |                    |         |
| 17,500.00                                                                                                 | 8,835.00            | 17,513.89           | 8,840.00            | 180.83          | 180.67      | -89.79                | 2,825.95                          | 8,568.74   | 1,759.49             | 1,397.97              | 361.52                  | 4.867 Alert       |                    |         |
| 17,600.00                                                                                                 | 8,835.00            | 17,613.89           | 8,840.00            | 182.84          | 182.69      | -89.79                | 2,826.54                          | 8,668.74   | 1,759.49             | 1,393.95              | 365.55                  | 4.813 Alert       |                    |         |
| 17,700.00                                                                                                 | 8,835.00            | 17,713.89           | 8,840.00            | 184.86          | 184.70      | -89.79                | 2,827.13                          | 8,768.74   | 1,759.49             | 1,389.91              | 369.57                  | 4.761 Alert       |                    |         |
| 17,800.00                                                                                                 | 8,835.00            | 17,813.89           | 8,840.00            | 186.87          | 186.71      | -89.79                | 2,827.73                          | 8,868.74   | 1,759.49             | 1,385.88              | 373.60                  | 4.710 Alert       |                    |         |
| 17,900.00                                                                                                 | 8,835.00            | 17,913.89           | 8,840.00            | 188.89          | 188.73      | -89.79                | 2,828.32                          | 8,968.74   | 1,759.48             | 1,381.85              | 377.63                  | 4.659 Alert       |                    |         |
| 18,000.00                                                                                                 | 8,835.00            | 18,013.89           | 8,840.00            | 190.91          | 190.75      | -89.79                | 2,828.91                          | 9,068.73   | 1,759.48             | 1,377.81              | 381.67                  | 4.610 Alert       |                    |         |
| 18,100.00                                                                                                 | 8,835.00            | 18,113.89           | 8,840.00            | 192.92          | 192.76      | -89.79                | 2,829.51                          | 9,168.73   | 1,759.48             | 1,373.78              | 385.70                  | 4.562 Alert       |                    |         |
| 18,200.00                                                                                                 | 8,835.00            | 18,213.89           | 8,840.00            | 194.94          | 194.78      | -89.79                | 2,830.10                          | 9,268.73   | 1,759.48             | 1,369.74              | 389.73                  | 4.515 Alert       |                    |         |
| 18,300.00                                                                                                 | 8,835.00            | 18,313.89           | 8,840.00            | 196.96          | 196.80      | -89.79                | 2,830.69                          | 9,368.73   | 1,759.47             | 1,365.70              | 393.77                  | 4.468 Alert       |                    |         |
| 18,400.00                                                                                                 | 8,835.00            | 18,413.89           | 8,840.00            | 198.98          | 198.81      | -89.79                | 2,831.29                          | 9,468.73   | 1,759.47             | 1,361.66              | 397.81                  | 4.423 Alert       |                    |         |
| 18,500.00                                                                                                 | 8,835.00            | 18,513.89           | 8,840.00            | 201.00          | 200.83      | -89.79                | 2,831.88                          | 9,568.72   | 1,759.47             | 1,357.62              | 401.85                  | 4.378 Alert       |                    |         |
| 18,600.00                                                                                                 | 8,835.00            | 18,613.89           | 8,840.00            | 203.02          | 202.85      | -89.79                | 2,832.47                          | 9,668.72   | 1,759.47             | 1,353.58              | 405.88                  | 4.335 Alert       |                    |         |
| 18,700.00                                                                                                 | 8,835.00            | 18,713.89           | 8,840.00            | 205.04          | 204.87      | -89.79                | 2,833.07                          | 9,768.72   | 1,759.46             | 1,349.54              | 409.92                  | 4.292 Alert       |                    |         |
| 18,800.00                                                                                                 | 8,835.00            | 18,813.89           | 8,840.00            | 207.06          | 206.89      | -89.79                | 2,833.66                          | 9,868.72   | 1,759.46             | 1,345.50              | 413.97                  | 4.250 Alert       |                    |         |
| 18,900.00                                                                                                 | 8,835.00            | 18,913.89           | 8,840.00            | 209.08          | 208.91      | -89.79                | 2,834.25                          | 9,968.72   | 1,759.46             | 1,341.45              | 418.01                  | 4.209 Alert       |                    |         |
| 19,000.00                                                                                                 | 8,835.00            | 19,013.89           | 8,840.00            | 211.10          | 210.93      | -89.79                | 2,834.85                          | 10,068.72  | 1,759.46             | 1,337.40              | 422.05                  | 4.169 Alert       |                    |         |
| 19,100.00                                                                                                 | 8,835.00            | 19,113.89           | 8,840.00            | 213.12          | 212.96      | -89.79                | 2,835.44                          | 10,168.71  | 1,759.45             | 1,333.36              | 426.10                  | 4.129 Alert       |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 331H - Wellbore #1 - Permit Plan 1 |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 0.00 ft       |
|-----------------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|---------------|
| Survey Program: 0-MWD+IFR1                                                                                |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 0.50 ft       |
| Reference                                                                                                 |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                           | Warning       |
| Measured Depth<br>(ft)                                                                                    | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |               |
| 19,200.00                                                                                                 | 8,835.00               | 19,213.89              | 8,840.00               | 215.15            | 214.98         | -89.79                      | 2,836.04                                | 10,268.71     | 1,759.45                   | 1,329.31                    | 430.14                        | 4.090                     | Alert         |
| 19,308.27                                                                                                 | 8,835.00               | 19,322.16              | 8,840.00               | 217.34            | 217.17         | -89.79                      | 2,836.68                                | 10,376.98     | 1,759.45                   | 1,324.93                    | 434.52                        | 4.049                     | Alert, ES, SF |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                       | 0.00                | 10.20               | 10.20               | 0.50            | 0.50        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             |                       |                         |                   |                    |         |
| 100.00                     | 100.00              | 110.20              | 110.20              | 0.52            | 0.53        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,497.65              | 1.05                    | 1,432.535         |                    |         |
| 200.00                     | 200.00              | 210.20              | 210.20              | 0.70            | 0.73        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,497.27              | 1.43                    | 1,047.790         |                    |         |
| 300.00                     | 300.00              | 310.20              | 310.20              | 0.99            | 1.02        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,496.69              | 2.01                    | 746.970           |                    |         |
| 400.00                     | 400.00              | 410.20              | 410.20              | 1.31            | 1.34        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,496.04              | 2.65                    | 565.110           |                    |         |
| 500.00                     | 500.00              | 510.20              | 510.20              | 1.65            | 1.68        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,495.37              | 3.33                    | 450.458           |                    |         |
| 600.00                     | 600.00              | 610.20              | 610.20              | 1.99            | 2.03        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,494.68              | 4.02                    | 373.124           |                    |         |
| 700.00                     | 700.00              | 710.20              | 710.20              | 2.34            | 2.38        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,493.98              | 4.71                    | 317.900           |                    |         |
| 800.00                     | 800.00              | 810.20              | 810.20              | 2.69            | 2.73        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,493.28              | 5.42                    | 276.659           |                    |         |
| 900.00                     | 900.00              | 910.20              | 910.20              | 3.04            | 3.08        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,492.57              | 6.12                    | 244.758           |                    |         |
| 1,000.00                   | 1,000.00            | 1,010.20            | 1,010.20            | 3.40            | 3.43        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,491.87              | 6.83                    | 219.380           |                    |         |
| 1,100.00                   | 1,100.00            | 1,110.20            | 1,110.20            | 3.75            | 3.79        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,491.16              | 7.54                    | 198.728           |                    |         |
| 1,200.00                   | 1,200.00            | 1,210.20            | 1,210.20            | 4.11            | 4.14        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,490.44              | 8.25                    | 181.603           |                    |         |
| 1,300.00                   | 1,300.00            | 1,310.20            | 1,310.20            | 4.46            | 4.50        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,489.73              | 8.96                    | 167.178           |                    |         |
| 1,400.00                   | 1,400.00            | 1,410.20            | 1,410.20            | 4.82            | 4.86        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,489.02              | 9.68                    | 154.864           |                    |         |
| 1,500.00                   | 1,500.00            | 1,510.20            | 1,510.20            | 5.18            | 5.21        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,488.31              | 10.39                   | 144.232           |                    |         |
| 1,600.00                   | 1,600.00            | 1,610.20            | 1,610.20            | 5.53            | 5.57        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,487.59              | 11.10                   | 134.961           |                    |         |
| 1,700.00                   | 1,700.00            | 1,710.20            | 1,710.20            | 5.89            | 5.93        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,486.88              | 11.82                   | 126.805           |                    |         |
| 1,800.00                   | 1,800.00            | 1,810.20            | 1,810.20            | 6.25            | 6.28        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,486.16              | 12.53                   | 119.576           |                    |         |
| 1,900.00                   | 1,900.00            | 1,910.20            | 1,910.20            | 6.61            | 6.64        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,485.45              | 13.25                   | 113.125           |                    |         |
| 2,000.00                   | 2,000.00            | 2,010.20            | 2,010.20            | 6.96            | 7.00        | -0.13                 | 1,498.69                          | -3.30      | 1,498.70             | 1,484.73              | 13.96                   | 107.332           |                    |         |
| 2,100.00                   | 2,099.99            | 2,110.19            | 2,110.19            | 7.32            | 7.36        | 12.66                 | 1,498.69                          | -3.30      | 1,497.85             | 1,483.17              | 14.68                   | 102.046           |                    |         |
| 2,200.00                   | 2,199.96            | 2,210.16            | 2,210.16            | 7.68            | 7.71        | 12.69                 | 1,498.69                          | -3.30      | 1,495.29             | 1,479.90              | 15.39                   | 97.140            |                    |         |
| 2,300.00                   | 2,299.86            | 2,310.06            | 2,310.06            | 8.04            | 8.07        | 12.74                 | 1,498.69                          | -3.30      | 1,491.04             | 1,474.93              | 16.11                   | 92.565            |                    |         |
| 2,400.00                   | 2,399.68            | 2,409.88            | 2,409.88            | 8.39            | 8.43        | 12.80                 | 1,498.69                          | -3.30      | 1,485.08             | 1,468.26              | 16.82                   | 88.280            |                    |         |
| 2,500.00                   | 2,499.37            | 2,509.57            | 2,509.57            | 8.75            | 8.79        | 12.89                 | 1,498.69                          | -3.30      | 1,477.43             | 1,459.89              | 17.54                   | 84.249            |                    |         |
| 2,600.00                   | 2,598.90            | 2,609.10            | 2,609.10            | 9.11            | 9.14        | 12.99                 | 1,498.69                          | -3.30      | 1,468.09             | 1,449.84              | 18.25                   | 80.443            |                    |         |
| 2,700.00                   | 2,698.26            | 2,708.46            | 2,708.46            | 9.46            | 9.50        | 13.12                 | 1,498.69                          | -3.30      | 1,457.06             | 1,438.09              | 18.96                   | 76.838            |                    |         |
| 2,800.00                   | 2,797.40            | 2,788.31            | 2,788.30            | 9.82            | 9.78        | 13.22                 | 1,499.28                          | -3.64      | 1,445.06             | 1,425.46              | 19.60                   | 73.710            |                    |         |
| 2,900.00                   | 2,896.30            | 2,869.78            | 2,869.75            | 10.18           | 10.07       | 13.33                 | 1,500.88                          | -4.54      | 1,432.60             | 1,412.35              | 20.25                   | 70.746            |                    |         |
| 3,000.00                   | 2,994.93            | 2,951.35            | 2,951.27            | 10.54           | 10.36       | 13.42                 | 1,503.49                          | -6.02      | 1,419.68             | 1,398.79              | 20.89                   | 67.946            |                    |         |
| 3,100.00                   | 3,093.26            | 3,033.02            | 3,032.83            | 10.90           | 10.65       | 13.51                 | 1,507.11                          | -8.08      | 1,406.30             | 1,384.76              | 21.54                   | 65.295            |                    |         |
| 3,195.07                   | 3,186.42            | 3,110.75            | 3,110.40            | 11.24           | 10.93       | 13.59                 | 1,511.49                          | -10.57     | 1,393.16             | 1,371.01              | 22.15                   | 62.901            |                    |         |
| 3,200.00                   | 3,191.25            | 3,114.79            | 3,114.42            | 11.26           | 10.95       | 13.59                 | 1,511.74                          | -10.71     | 1,392.47             | 1,370.29              | 22.18                   | 62.778            |                    |         |
| 3,300.00                   | 3,289.08            | 3,196.76            | 3,196.14            | 11.62           | 11.24       | 13.62                 | 1,517.41                          | -13.93     | 1,379.10             | 1,356.27              | 22.82                   | 60.427            |                    |         |
| 3,400.00                   | 3,386.91            | 3,284.23            | 3,283.22            | 11.98           | 11.55       | 13.63                 | 1,524.50                          | -17.96     | 1,366.90             | 1,343.41              | 23.49                   | 58.195            |                    |         |
| 3,500.00                   | 3,484.74            | 3,383.52            | 3,382.05            | 12.35           | 11.90       | 13.63                 | 1,532.83                          | -22.69     | 1,354.99             | 1,330.78              | 24.21                   | 55.973            |                    |         |
| 3,600.00                   | 3,582.58            | 3,482.80            | 3,480.87            | 12.72           | 12.26       | 13.63                 | 1,541.16                          | -27.42     | 1,343.08             | 1,318.15              | 24.93                   | 53.876            |                    |         |
| 3,700.00                   | 3,680.41            | 3,582.09            | 3,579.70            | 13.09           | 12.61       | 13.63                 | 1,549.49                          | -32.15     | 1,331.17             | 1,305.52              | 25.65                   | 51.894            |                    |         |
| 3,800.00                   | 3,778.24            | 3,681.38            | 3,678.53            | 13.46           | 12.97       | 13.63                 | 1,557.82                          | -36.88     | 1,319.27             | 1,292.89              | 26.38                   | 50.018            |                    |         |
| 3,900.00                   | 3,876.08            | 3,780.67            | 3,777.35            | 13.83           | 13.32       | 13.63                 | 1,566.15                          | -41.61     | 1,307.36             | 1,280.26              | 27.10                   | 48.239            |                    |         |
| 4,000.00                   | 3,973.91            | 3,879.96            | 3,876.18            | 14.21           | 13.68       | 13.63                 | 1,574.48                          | -46.34     | 1,295.45             | 1,267.62              | 27.83                   | 46.551            |                    |         |
| 4,100.00                   | 4,071.74            | 3,979.25            | 3,975.00            | 14.58           | 14.04       | 13.63                 | 1,582.80                          | -51.07     | 1,283.55             | 1,254.99              | 28.56                   | 44.947            |                    |         |
| 4,200.00                   | 4,169.57            | 4,078.54            | 4,073.83            | 14.96           | 14.39       | 13.63                 | 1,591.13                          | -55.80     | 1,271.64             | 1,242.35              | 29.29                   | 43.421            |                    |         |
| 4,300.00                   | 4,267.41            | 4,177.82            | 4,172.65            | 15.33           | 14.75       | 13.63                 | 1,599.46                          | -60.53     | 1,259.73             | 1,229.72              | 30.02                   | 41.968            |                    |         |
| 4,400.00                   | 4,365.24            | 4,277.11            | 4,271.48            | 15.71           | 15.11       | 13.63                 | 1,607.79                          | -65.26     | 1,247.82             | 1,217.08              | 30.75                   | 40.583            |                    |         |
| 4,500.00                   | 4,463.07            | 4,376.40            | 4,370.30            | 16.09           | 15.47       | 13.63                 | 1,616.12                          | -69.99     | 1,235.92             | 1,204.44              | 31.48                   | 39.261            |                    |         |
| 4,600.00                   | 4,560.90            | 4,475.69            | 4,469.13            | 16.47           | 15.82       | 13.63                 | 1,624.45                          | -74.72     | 1,224.01             | 1,191.80              | 32.21                   | 37.999            |                    |         |
| 4,700.00                   | 4,658.74            | 4,574.98            | 4,567.95            | 16.85           | 16.18       | 13.63                 | 1,632.78                          | -79.45     | 1,212.10             | 1,179.16              | 32.95                   | 36.791            |                    |         |
| 4,800.00                   | 4,756.57            | 4,674.27            | 4,666.78            | 17.23           | 16.54       | 13.64                 | 1,641.11                          | -84.18     | 1,200.20             | 1,166.52              | 33.68                   | 35.636            |                    |         |
| 4,900.00                   | 4,854.40            | 4,773.56            | 4,765.61            | 17.61           | 16.90       | 13.64                 | 1,649.44                          | -88.91     | 1,188.29             | 1,153.87              | 34.41                   | 34.529            |                    |         |
| 5,000.00                   | 4,952.23            | 4,872.84            | 4,864.43            | 17.99           | 17.26       | 13.64                 | 1,657.77                          | -93.64     | 1,176.38             | 1,141.23              | 35.15                   | 33.467            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 332H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|-----------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1                                                                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                                                                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                                                                                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                                                                                                  | 5,050.07            | 4,972.13            | 4,963.26            | 18.37           | 17.62       | 13.64                 | 1,666.10                          | -98.37     | 1,164.47             | 1,128.59              | 35.89                   | 32.449            |                    |         |
| 5,200.00                                                                                                  | 5,147.90            | 5,071.42            | 5,062.08            | 18.75           | 17.98       | 13.64                 | 1,674.43                          | -103.10    | 1,152.57             | 1,115.94              | 36.62                   | 31.471            |                    |         |
| 5,300.00                                                                                                  | 5,245.73            | 5,170.71            | 5,160.91            | 19.14           | 18.34       | 13.64                 | 1,682.76                          | -107.83    | 1,140.66             | 1,103.30              | 37.36                   | 30.532            |                    |         |
| 5,400.00                                                                                                  | 5,343.56            | 5,270.00            | 5,259.73            | 19.52           | 18.69       | 13.64                 | 1,691.08                          | -112.56    | 1,128.75             | 1,090.66              | 38.10                   | 29.628            |                    |         |
| 5,500.00                                                                                                  | 5,441.40            | 5,369.29            | 5,358.56            | 19.90           | 19.05       | 13.64                 | 1,699.41                          | -117.29    | 1,116.85             | 1,078.01              | 38.84                   | 28.758            |                    |         |
| 5,600.00                                                                                                  | 5,539.23            | 5,468.58            | 5,457.38            | 20.29           | 19.41       | 13.64                 | 1,707.74                          | -122.02    | 1,104.94             | 1,065.36              | 39.57                   | 27.921            |                    |         |
| 5,700.00                                                                                                  | 5,637.06            | 5,567.86            | 5,556.21            | 20.67           | 19.77       | 13.64                 | 1,716.07                          | -126.75    | 1,093.03             | 1,052.72              | 40.31                   | 27.114            |                    |         |
| 5,800.00                                                                                                  | 5,734.90            | 5,667.15            | 5,655.03            | 21.05           | 20.13       | 13.64                 | 1,724.40                          | -131.48    | 1,081.13             | 1,040.07              | 41.05                   | 26.335            |                    |         |
| 5,900.00                                                                                                  | 5,832.73            | 5,766.44            | 5,753.86            | 21.44           | 20.49       | 13.65                 | 1,732.73                          | -136.21    | 1,069.22             | 1,027.43              | 41.79                   | 25.584            |                    |         |
| 6,000.00                                                                                                  | 5,930.56            | 5,865.73            | 5,852.69            | 21.83           | 20.85       | 13.65                 | 1,741.06                          | -140.94    | 1,057.31             | 1,014.78              | 42.53                   | 24.859            |                    |         |
| 6,100.00                                                                                                  | 6,028.39            | 5,965.02            | 5,951.51            | 22.21           | 21.21       | 13.65                 | 1,749.39                          | -145.67    | 1,045.40             | 1,002.13              | 43.27                   | 24.158            |                    |         |
| 6,200.00                                                                                                  | 6,126.23            | 6,064.31            | 6,050.34            | 22.60           | 21.57       | 13.65                 | 1,757.72                          | -150.40    | 1,033.50             | 989.48                | 44.01                   | 23.481            |                    |         |
| 6,300.00                                                                                                  | 6,224.06            | 6,163.60            | 6,149.16            | 22.98           | 21.94       | 13.65                 | 1,766.05                          | -155.13    | 1,021.59             | 976.84                | 44.75                   | 22.827            |                    |         |
| 6,400.00                                                                                                  | 6,321.89            | 6,262.88            | 6,247.99            | 23.37           | 22.30       | 13.65                 | 1,774.38                          | -159.86    | 1,009.68             | 964.19                | 45.50                   | 22.193            |                    |         |
| 6,500.00                                                                                                  | 6,419.72            | 6,362.17            | 6,346.81            | 23.76           | 22.66       | 13.65                 | 1,782.71                          | -164.59    | 997.78               | 951.54                | 46.24                   | 21.579            |                    |         |
| 6,600.00                                                                                                  | 6,517.56            | 6,461.46            | 6,445.64            | 24.14           | 23.02       | 13.65                 | 1,791.03                          | -169.32    | 985.87               | 938.89                | 46.98                   | 20.985            |                    |         |
| 6,700.00                                                                                                  | 6,615.39            | 6,560.75            | 6,544.46            | 24.53           | 23.38       | 13.65                 | 1,799.36                          | -174.05    | 973.96               | 926.24                | 47.72                   | 20.409            |                    |         |
| 6,800.00                                                                                                  | 6,713.22            | 6,660.04            | 6,643.29            | 24.92           | 23.74       | 13.66                 | 1,807.69                          | -178.78    | 962.05               | 913.59                | 48.46                   | 19.851            |                    |         |
| 6,900.00                                                                                                  | 6,811.05            | 6,759.33            | 6,742.11            | 25.30           | 24.10       | 13.66                 | 1,816.02                          | -183.51    | 950.15               | 900.94                | 49.21                   | 19.309            |                    |         |
| 7,000.00                                                                                                  | 6,908.89            | 6,858.62            | 6,840.94            | 25.69           | 24.46       | 13.66                 | 1,824.35                          | -188.24    | 938.24               | 888.29                | 49.95                   | 18.784            |                    |         |
| 7,100.00                                                                                                  | 7,006.72            | 6,957.90            | 6,939.77            | 26.08           | 24.82       | 13.66                 | 1,832.68                          | -192.97    | 926.33               | 875.64                | 50.69                   | 18.274            |                    |         |
| 7,200.00                                                                                                  | 7,104.55            | 7,057.19            | 7,038.59            | 26.47           | 25.18       | 13.66                 | 1,841.01                          | -197.70    | 914.43               | 862.99                | 51.44                   | 17.778            |                    |         |
| 7,216.87                                                                                                  | 7,121.05            | 7,073.94            | 7,055.26            | 26.53           | 25.24       | 13.66                 | 1,842.42                          | -198.50    | 912.42               | 860.86                | 51.56                   | 17.696            |                    |         |
| 7,300.00                                                                                                  | 7,202.57            | 7,156.58            | 7,137.51            | 26.85           | 25.54       | 13.62                 | 1,849.35                          | -202.44    | 903.39               | 851.21                | 52.18                   | 17.314            |                    |         |
| 7,400.00                                                                                                  | 7,301.06            | 7,256.21            | 7,236.68            | 27.23           | 25.91       | 13.54                 | 1,857.71                          | -207.18    | 894.86               | 841.94                | 52.92                   | 16.910            |                    |         |
| 7,500.00                                                                                                  | 7,399.97            | 7,356.02            | 7,336.02            | 27.61           | 26.27       | 13.42                 | 1,866.08                          | -211.94    | 888.86               | 835.20                | 53.65                   | 16.567            |                    |         |
| 7,600.00                                                                                                  | 7,499.23            | 7,455.93            | 7,435.47            | 27.98           | 26.63       | 13.28                 | 1,874.46                          | -216.70    | 885.41               | 831.02                | 54.38                   | 16.280            |                    |         |
| 7,685.06                                                                                                  | 7,583.89            | 7,540.96            | 7,520.10            | 28.29           | 26.94       | 13.13                 | 1,881.59                          | -220.75    | 884.48               | 829.48                | 55.00                   | 16.081 CC         |                    |         |
| 7,700.00                                                                                                  | 7,598.77            | 7,555.89            | 7,534.96            | 28.34           | 27.00       | 13.10                 | 1,882.85                          | -221.46    | 884.51               | 829.40                | 55.11                   | 16.050            |                    |         |
| 7,800.00                                                                                                  | 7,698.53            | 7,664.94            | 7,643.52            | 28.70           | 27.39       | 12.89                 | 1,891.76                          | -226.52    | 885.99               | 830.13                | 55.86                   | 15.861            |                    |         |
| 7,900.00                                                                                                  | 7,798.44            | 7,790.19            | 7,768.48            | 29.05           | 27.85       | 12.70                 | 1,899.20                          | -230.75    | 887.76               | 831.14                | 56.62                   | 15.679            |                    |         |
| 8,000.00                                                                                                  | 7,898.42            | 7,915.57            | 7,893.77            | 29.39           | 28.30       | 12.59                 | 1,903.08                          | -232.95    | 889.24               | 831.89                | 57.34                   | 15.508            |                    |         |
| 8,013.58                                                                                                  | 7,912.00            | 7,932.60            | 7,910.80            | 29.43           | 28.36       | -0.20                 | 1,903.33                          | -233.10    | 889.41               | 831.98                | 57.43                   | 15.486            |                    |         |
| 8,100.00                                                                                                  | 7,998.42            | 8,030.42            | 8,008.62            | 29.73           | 28.70       | -0.21                 | 1,903.69                          | -233.30    | 889.70               | 831.67                | 58.03                   | 15.332            |                    |         |
| 8,200.00                                                                                                  | 8,098.42            | 8,130.42            | 8,108.62            | 30.07           | 29.06       | -0.21                 | 1,903.69                          | -233.30    | 889.70               | 830.97                | 58.73                   | 15.150            |                    |         |
| 8,300.00                                                                                                  | 8,198.42            | 8,230.42            | 8,208.62            | 30.41           | 29.41       | -0.21                 | 1,903.69                          | -233.30    | 889.70               | 830.27                | 59.42                   | 14.972            |                    |         |
| 8,363.62                                                                                                  | 8,262.04            | 8,294.04            | 8,272.24            | 30.62           | 29.64       | -0.21                 | 1,903.69                          | -233.30    | 889.70               | 829.83                | 59.87                   | 14.861            |                    |         |
| 8,400.00                                                                                                  | 8,298.40            | 8,330.40            | 8,308.60            | 30.75           | 29.77       | -89.95                | 1,903.69                          | -233.30    | 889.70               | 829.58                | 60.12                   | 14.799            |                    |         |
| 8,411.53                                                                                                  | 8,309.89            | 8,341.89            | 8,320.09            | 30.78           | 29.81       | -90.00                | 1,903.69                          | -233.30    | 889.70               | 829.50                | 60.20                   | 14.780            |                    |         |
| 8,450.00                                                                                                  | 8,348.10            | 8,380.35            | 8,358.51            | 30.91           | 29.94       | -90.19                | 1,903.70                          | -231.80    | 889.70               | 829.25                | 60.45                   | 14.719            |                    |         |
| 8,500.00                                                                                                  | 8,397.14            | 8,430.63            | 8,408.44            | 31.07           | 30.10       | -90.44                | 1,903.74                          | -225.96    | 889.72               | 828.95                | 60.77                   | 14.641            |                    |         |
| 8,550.00                                                                                                  | 8,445.15            | 8,481.26            | 8,458.00            | 31.23           | 30.27       | -90.69                | 1,903.80                          | -215.69    | 889.76               | 828.68                | 61.09                   | 14.566            |                    |         |
| 8,600.00                                                                                                  | 8,491.77            | 8,532.25            | 8,506.79            | 31.38           | 30.44       | -90.93                | 1,903.89                          | -200.97    | 889.82               | 828.42                | 61.40                   | 14.493            |                    |         |
| 8,650.00                                                                                                  | 8,536.65            | 8,583.58            | 8,554.40            | 31.52           | 30.60       | -91.17                | 1,904.00                          | -181.82    | 889.88               | 828.18                | 61.70                   | 14.423            |                    |         |
| 8,700.00                                                                                                  | 8,579.43            | 8,635.26            | 8,600.41            | 31.66           | 30.77       | -91.40                | 1,904.14                          | -158.32    | 889.96               | 827.97                | 62.00                   | 14.355            |                    |         |
| 8,750.00                                                                                                  | 8,619.80            | 8,687.28            | 8,644.39            | 31.80           | 30.93       | -91.62                | 1,904.31                          | -130.58    | 890.05               | 827.76                | 62.29                   | 14.288            |                    |         |
| 8,800.00                                                                                                  | 8,657.44            | 8,739.63            | 8,685.93            | 31.93           | 31.09       | -91.83                | 1,904.50                          | -98.75     | 890.15               | 827.56                | 62.59                   | 14.222            |                    |         |
| 8,850.00                                                                                                  | 8,692.08            | 8,792.29            | 8,724.61            | 32.06           | 31.26       | -92.02                | 1,904.71                          | -63.04     | 890.25               | 827.36                | 62.89                   | 14.155            |                    |         |
| 8,900.00                                                                                                  | 8,723.44            | 8,845.24            | 8,760.04            | 32.19           | 31.43       | -92.20                | 1,904.94                          | -23.71     | 890.35               | 827.15                | 63.21                   | 14.086            |                    |         |
| 8,950.00                                                                                                  | 8,751.29            | 8,898.47            | 8,791.84            | 32.34           | 31.62       | -92.35                | 1,905.20                          | 18.95      | 890.45               | 826.91                | 63.54                   | 14.013            |                    |         |
| 9,000.00                                                                                                  | 8,775.42            | 8,951.95            | 8,819.66            | 32.50           | 31.81       | -92.50                | 1,905.47                          | 64.60      | 890.55               | 826.64                | 63.91                   | 13.935            |                    |         |
| 9,050.00                                                                                                  | 8,795.64            | 9,005.64            | 8,843.19            | 32.67           | 32.03       | -92.62                | 1,905.76                          | 112.83     | 890.63               | 826.32                | 64.31                   | 13.849            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 332H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|-----------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1                                                                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                                                                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                                                                                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,100.00                                                                                                  | 8,811.80            | 9,059.51            | 8,862.16            | 32.87           | 32.27       | -92.72                | 1,906.06                          | 163.24     | 890.70               | 825.95                | 64.75                   | 13.756            |                    |         |
| 9,150.00                                                                                                  | 8,823.77            | 9,113.54            | 8,876.35            | 33.10           | 32.53       | -92.79                | 1,906.37                          | 215.35     | 890.76               | 825.52                | 65.24                   | 13.654            |                    |         |
| 9,200.00                                                                                                  | 8,831.47            | 9,167.68            | 8,885.59            | 33.34           | 32.80       | -92.85                | 1,906.69                          | 268.67     | 890.80               | 825.04                | 65.76                   | 13.546            |                    |         |
| 9,250.00                                                                                                  | 8,834.84            | 9,221.89            | 8,889.75            | 33.60           | 33.10       | -92.88                | 1,907.01                          | 322.70     | 890.83               | 824.50                | 66.33                   | 13.431            |                    |         |
| 9,263.62                                                                                                  | 8,835.00            | 9,236.66            | 8,889.99            | 33.67           | 33.18       | -92.88                | 1,907.10                          | 337.47     | 890.83               | 824.34                | 66.49                   | 13.399            |                    |         |
| 9,300.00                                                                                                  | 8,835.00            | 9,273.21            | 8,890.00            | 33.88           | 33.40       | -92.88                | 1,907.32                          | 374.02     | 890.83               | 823.91                | 66.92                   | 13.312            |                    |         |
| 9,400.00                                                                                                  | 8,835.00            | 9,373.21            | 8,890.00            | 34.53           | 34.08       | -92.88                | 1,907.91                          | 474.02     | 890.83               | 822.58                | 68.25                   | 13.052            |                    |         |
| 9,500.00                                                                                                  | 8,835.00            | 9,473.21            | 8,890.00            | 35.30           | 34.85       | -92.88                | 1,908.51                          | 574.02     | 890.83               | 821.04                | 69.79                   | 12.764            |                    |         |
| 9,600.00                                                                                                  | 8,835.00            | 9,573.21            | 8,890.00            | 36.17           | 35.73       | -92.88                | 1,909.11                          | 674.01     | 890.83               | 819.29                | 71.54                   | 12.453            |                    |         |
| 9,700.00                                                                                                  | 8,835.00            | 9,673.21            | 8,890.00            | 37.13           | 36.70       | -92.88                | 1,909.71                          | 774.01     | 890.83               | 817.37                | 73.47                   | 12.125            |                    |         |
| 9,800.00                                                                                                  | 8,835.00            | 9,773.21            | 8,890.00            | 38.18           | 37.76       | -92.88                | 1,910.30                          | 874.01     | 890.83               | 815.26                | 75.57                   | 11.788            |                    |         |
| 9,900.00                                                                                                  | 8,835.00            | 9,873.21            | 8,890.00            | 39.31           | 38.90       | -92.88                | 1,910.90                          | 974.01     | 890.84               | 813.01                | 77.83                   | 11.446            |                    |         |
| 10,000.00                                                                                                 | 8,835.00            | 9,973.21            | 8,890.00            | 40.51           | 40.10       | -92.88                | 1,911.50                          | 1,074.01   | 890.84               | 810.60                | 80.23                   | 11.103            |                    |         |
| 10,100.00                                                                                                 | 8,835.00            | 10,073.21           | 8,890.00            | 41.78           | 41.38       | -92.88                | 1,912.09                          | 1,174.00   | 890.84               | 808.07                | 82.77                   | 10.763            |                    |         |
| 10,200.00                                                                                                 | 8,835.00            | 10,173.21           | 8,890.00            | 43.10           | 42.71       | -92.88                | 1,912.69                          | 1,274.00   | 890.84               | 805.41                | 85.43                   | 10.428            |                    |         |
| 10,300.00                                                                                                 | 8,835.00            | 10,273.21           | 8,890.00            | 44.49           | 44.10       | -92.88                | 1,913.29                          | 1,374.00   | 890.84               | 802.64                | 88.19                   | 10.101            |                    |         |
| 10,400.00                                                                                                 | 8,835.00            | 10,373.21           | 8,890.00            | 45.92           | 45.54       | -92.88                | 1,913.88                          | 1,474.00   | 890.84               | 799.78                | 91.06                   | 9.783             |                    |         |
| 10,500.00                                                                                                 | 8,835.00            | 10,473.21           | 8,890.00            | 47.39           | 47.02       | -92.88                | 1,914.48                          | 1,574.00   | 890.84               | 796.82                | 94.02                   | 9.475             |                    |         |
| 10,600.00                                                                                                 | 8,835.00            | 10,573.21           | 8,890.00            | 48.91           | 48.55       | -92.88                | 1,915.08                          | 1,674.00   | 890.84               | 793.79                | 97.06                   | 9.179             |                    |         |
| 10,700.00                                                                                                 | 8,835.00            | 10,673.21           | 8,890.00            | 50.47           | 50.11       | -92.88                | 1,915.67                          | 1,773.99   | 890.84               | 790.67                | 100.17                  | 8.893             |                    |         |
| 10,800.00                                                                                                 | 8,835.00            | 10,773.21           | 8,890.00            | 52.06           | 51.71       | -92.88                | 1,916.27                          | 1,873.99   | 890.84               | 787.49                | 103.35                  | 8.620             |                    |         |
| 10,900.00                                                                                                 | 8,835.00            | 10,873.21           | 8,890.00            | 53.68           | 53.33       | -92.88                | 1,916.87                          | 1,973.99   | 890.84               | 784.25                | 106.59                  | 8.357             |                    |         |
| 11,000.00                                                                                                 | 8,835.00            | 10,973.21           | 8,890.00            | 55.32           | 54.99       | -92.88                | 1,917.46                          | 2,073.99   | 890.85               | 780.95                | 109.89                  | 8.107             |                    |         |
| 11,100.00                                                                                                 | 8,835.00            | 11,073.21           | 8,890.00            | 57.00           | 56.67       | -92.88                | 1,918.06                          | 2,173.99   | 890.85               | 777.60                | 113.24                  | 7.867             |                    |         |
| 11,200.00                                                                                                 | 8,835.00            | 11,173.21           | 8,890.00            | 58.70           | 58.37       | -92.88                | 1,918.66                          | 2,273.98   | 890.85               | 774.21                | 116.64                  | 7.638             |                    |         |
| 11,300.00                                                                                                 | 8,835.00            | 11,273.21           | 8,890.00            | 60.41           | 60.10       | -92.88                | 1,919.25                          | 2,373.98   | 890.85               | 770.77                | 120.08                  | 7.419             |                    |         |
| 11,400.00                                                                                                 | 8,835.00            | 11,373.21           | 8,890.00            | 62.15           | 61.84       | -92.88                | 1,919.85                          | 2,473.98   | 890.85               | 767.29                | 123.56                  | 7.210             |                    |         |
| 11,500.00                                                                                                 | 8,835.00            | 11,473.21           | 8,890.00            | 63.91           | 63.60       | -92.88                | 1,920.45                          | 2,573.98   | 890.85               | 763.77                | 127.08                  | 7.010             |                    |         |
| 11,600.00                                                                                                 | 8,835.00            | 11,573.21           | 8,890.00            | 65.69           | 65.38       | -92.88                | 1,921.04                          | 2,673.98   | 890.85               | 760.22                | 130.63                  | 6.820             |                    |         |
| 11,700.00                                                                                                 | 8,835.00            | 11,673.21           | 8,890.00            | 67.47           | 67.18       | -92.88                | 1,921.64                          | 2,773.98   | 890.85               | 756.64                | 134.21                  | 6.638             |                    |         |
| 11,800.00                                                                                                 | 8,835.00            | 11,773.21           | 8,890.00            | 69.28           | 68.99       | -92.88                | 1,922.24                          | 2,873.97   | 890.85               | 753.04                | 137.82                  | 6.464             |                    |         |
| 11,900.00                                                                                                 | 8,835.00            | 11,873.21           | 8,890.00            | 71.09           | 70.81       | -92.88                | 1,922.84                          | 2,973.97   | 890.85               | 749.40                | 141.45                  | 6.298             |                    |         |
| 12,000.00                                                                                                 | 8,835.00            | 11,973.21           | 8,890.00            | 72.92           | 72.64       | -92.88                | 1,923.43                          | 3,073.97   | 890.85               | 745.74                | 145.11                  | 6.139             |                    |         |
| 12,100.00                                                                                                 | 8,835.00            | 12,073.21           | 8,890.00            | 74.76           | 74.48       | -92.88                | 1,924.03                          | 3,173.97   | 890.86               | 742.06                | 148.79                  | 5.987             |                    |         |
| 12,200.00                                                                                                 | 8,835.00            | 12,173.21           | 8,890.00            | 76.61           | 76.34       | -92.88                | 1,924.63                          | 3,273.97   | 890.86               | 738.36                | 152.49                  | 5.842             |                    |         |
| 12,300.00                                                                                                 | 8,835.00            | 12,273.21           | 8,890.00            | 78.47           | 78.20       | -92.88                | 1,925.22                          | 3,373.97   | 890.86               | 734.64                | 156.21                  | 5.703             |                    |         |
| 12,400.00                                                                                                 | 8,835.00            | 12,373.21           | 8,890.00            | 80.34           | 80.08       | -92.88                | 1,925.82                          | 3,473.96   | 890.86               | 730.90                | 159.95                  | 5.569             |                    |         |
| 12,500.00                                                                                                 | 8,835.00            | 12,473.21           | 8,890.00            | 82.22           | 81.96       | -92.88                | 1,926.42                          | 3,573.96   | 890.86               | 727.15                | 163.71                  | 5.442             |                    |         |
| 12,600.00                                                                                                 | 8,835.00            | 12,573.21           | 8,890.00            | 84.11           | 83.85       | -92.88                | 1,927.01                          | 3,673.96   | 890.86               | 723.38                | 167.48                  | 5.319             |                    |         |
| 12,700.00                                                                                                 | 8,835.00            | 12,673.21           | 8,890.00            | 86.00           | 85.74       | -92.88                | 1,927.61                          | 3,773.96   | 890.86               | 719.60                | 171.27                  | 5.202             |                    |         |
| 12,800.00                                                                                                 | 8,835.00            | 12,773.21           | 8,890.00            | 87.90           | 87.65       | -92.88                | 1,928.21                          | 3,873.96   | 890.86               | 715.80                | 175.06                  | 5.089             |                    |         |
| 12,900.00                                                                                                 | 8,835.00            | 12,873.21           | 8,890.00            | 89.81           | 89.56       | -92.88                | 1,928.80                          | 3,973.95   | 890.86               | 711.99                | 178.88                  | 4.980 Alert       |                    |         |
| 13,000.00                                                                                                 | 8,835.00            | 12,973.21           | 8,890.00            | 91.72           | 91.47       | -92.88                | 1,929.40                          | 4,073.95   | 890.86               | 708.16                | 182.70                  | 4.876 Alert       |                    |         |
| 13,100.00                                                                                                 | 8,835.00            | 13,073.21           | 8,890.00            | 93.64           | 93.39       | -92.88                | 1,930.00                          | 4,173.95   | 890.86               | 704.33                | 186.54                  | 4.776 Alert       |                    |         |
| 13,200.00                                                                                                 | 8,835.00            | 13,173.21           | 8,890.00            | 95.56           | 95.32       | -92.88                | 1,930.59                          | 4,273.95   | 890.86               | 700.48                | 190.38                  | 4.679 Alert       |                    |         |
| 13,300.00                                                                                                 | 8,835.00            | 13,273.21           | 8,890.00            | 97.49           | 97.25       | -92.88                | 1,931.19                          | 4,373.95   | 890.87               | 696.63                | 194.24                  | 4.587 Alert       |                    |         |
| 13,400.00                                                                                                 | 8,835.00            | 13,373.21           | 8,890.00            | 99.42           | 99.19       | -92.88                | 1,931.79                          | 4,473.95   | 890.87               | 692.77                | 198.10                  | 4.497 Alert       |                    |         |
| 13,500.00                                                                                                 | 8,835.00            | 13,473.21           | 8,890.00            | 101.36          | 101.13      | -92.88                | 1,932.38                          | 4,573.94   | 890.87               | 688.89                | 201.97                  | 4.411 Alert       |                    |         |
| 13,600.00                                                                                                 | 8,835.00            | 13,573.21           | 8,890.00            | 103.30          | 103.07      | -92.88                | 1,932.98                          | 4,673.94   | 890.87               | 685.01                | 205.86                  | 4.328 Alert       |                    |         |
| 13,700.00                                                                                                 | 8,835.00            | 13,673.21           | 8,890.00            | 105.25          | 105.02      | -92.88                | 1,933.58                          | 4,773.94   | 890.87               | 681.12                | 209.75                  | 4.247 Alert       |                    |         |
| 13,800.00                                                                                                 | 8,835.00            | 13,773.21           | 8,890.00            | 107.20          | 106.97      | -92.88                | 1,934.17                          | 4,873.94   | 890.87               | 677.23                | 213.64                  | 4.170 Alert       |                    |         |
| 13,900.00                                                                                                 | 8,835.00            | 13,873.21           | 8,890.00            | 109.15          | 108.92      | -92.88                | 1,934.77                          | 4,973.94   | 890.87               | 673.32                | 217.55                  | 4.095 Alert       |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 332H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|-----------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1                                                                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                                                                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                                                                                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 14,000.00                                                                                                 | 8,835.00            | 13,973.21           | 8,890.00            | 111.10          | 110.88      | -92.88                | 1,935.37                          | 5,073.94   | 890.87               | 669.42                | 221.46                  | 4.023 Alert       |                    |         |
| 14,100.00                                                                                                 | 8,835.00            | 14,073.21           | 8,890.00            | 113.06          | 112.84      | -92.88                | 1,935.97                          | 5,173.93   | 890.87               | 665.50                | 225.37                  | 3.953 Alert       |                    |         |
| 14,200.00                                                                                                 | 8,835.00            | 14,173.21           | 8,890.00            | 115.03          | 114.81      | -92.88                | 1,936.56                          | 5,273.93   | 890.87               | 661.58                | 229.30                  | 3.885 Alert       |                    |         |
| 14,300.00                                                                                                 | 8,835.00            | 14,273.21           | 8,890.00            | 116.99          | 116.78      | -92.88                | 1,937.16                          | 5,373.93   | 890.87               | 657.65                | 233.23                  | 3.820 Alert       |                    |         |
| 14,400.00                                                                                                 | 8,835.00            | 14,373.21           | 8,890.00            | 118.96          | 118.75      | -92.88                | 1,937.76                          | 5,473.93   | 890.88               | 653.72                | 237.16                  | 3.756 Alert       |                    |         |
| 14,500.00                                                                                                 | 8,835.00            | 14,473.21           | 8,890.00            | 120.93          | 120.72      | -92.88                | 1,938.35                          | 5,573.93   | 890.88               | 649.78                | 241.10                  | 3.695 Alert       |                    |         |
| 14,600.00                                                                                                 | 8,835.00            | 14,573.21           | 8,890.00            | 122.90          | 122.69      | -92.88                | 1,938.95                          | 5,673.92   | 890.88               | 645.84                | 245.04                  | 3.636 Alert       |                    |         |
| 14,700.00                                                                                                 | 8,835.00            | 14,673.21           | 8,890.00            | 124.88          | 124.67      | -92.88                | 1,939.55                          | 5,773.92   | 890.88               | 641.89                | 248.99                  | 3.578 Alert       |                    |         |
| 14,800.00                                                                                                 | 8,835.00            | 14,773.21           | 8,890.00            | 126.86          | 126.65      | -92.88                | 1,940.14                          | 5,873.92   | 890.88               | 637.94                | 252.94                  | 3.522 Alert       |                    |         |
| 14,900.00                                                                                                 | 8,835.00            | 14,873.21           | 8,890.00            | 128.84          | 128.63      | -92.88                | 1,940.74                          | 5,973.92   | 890.88               | 633.98                | 256.90                  | 3.468 Alert       |                    |         |
| 15,000.00                                                                                                 | 8,835.00            | 14,973.21           | 8,890.00            | 130.82          | 130.62      | -92.88                | 1,941.34                          | 6,073.92   | 890.88               | 630.02                | 260.86                  | 3.415 Alert       |                    |         |
| 15,100.00                                                                                                 | 8,835.00            | 15,073.21           | 8,890.00            | 132.80          | 132.60      | -92.88                | 1,941.93                          | 6,173.92   | 890.88               | 626.06                | 264.83                  | 3.364 Alert       |                    |         |
| 15,200.00                                                                                                 | 8,835.00            | 15,173.21           | 8,890.00            | 134.79          | 134.59      | -92.88                | 1,942.53                          | 6,273.91   | 890.88               | 622.09                | 268.80                  | 3.314 Alert       |                    |         |
| 15,300.00                                                                                                 | 8,835.00            | 15,273.21           | 8,890.00            | 136.78          | 136.58      | -92.88                | 1,943.13                          | 6,373.91   | 890.88               | 618.12                | 272.77                  | 3.266 Alert       |                    |         |
| 15,400.00                                                                                                 | 8,835.00            | 15,373.21           | 8,890.00            | 138.76          | 138.57      | -92.88                | 1,943.72                          | 6,473.91   | 890.88               | 614.14                | 276.74                  | 3.219 Alert       |                    |         |
| 15,500.00                                                                                                 | 8,835.00            | 15,473.21           | 8,890.00            | 140.76          | 140.56      | -92.88                | 1,944.32                          | 6,573.91   | 890.89               | 610.16                | 280.72                  | 3.174 Alert       |                    |         |
| 15,600.00                                                                                                 | 8,835.00            | 15,573.21           | 8,890.00            | 142.75          | 142.55      | -92.88                | 1,944.92                          | 6,673.91   | 890.89               | 606.18                | 284.70                  | 3.129 Alert       |                    |         |
| 15,700.00                                                                                                 | 8,835.00            | 15,673.21           | 8,890.00            | 144.74          | 144.55      | -92.88                | 1,945.51                          | 6,773.90   | 890.89               | 602.20                | 288.69                  | 3.086 Alert       |                    |         |
| 15,800.00                                                                                                 | 8,835.00            | 15,773.21           | 8,890.00            | 146.74          | 146.55      | -92.88                | 1,946.11                          | 6,873.90   | 890.89               | 598.21                | 292.68                  | 3.044 Alert       |                    |         |
| 15,900.00                                                                                                 | 8,835.00            | 15,873.21           | 8,890.00            | 148.73          | 148.54      | -92.88                | 1,946.71                          | 6,973.90   | 890.89               | 594.22                | 296.67                  | 3.003 Alert       |                    |         |
| 16,000.00                                                                                                 | 8,835.00            | 15,973.21           | 8,890.00            | 150.73          | 150.54      | -92.88                | 1,947.31                          | 7,073.90   | 890.89               | 590.23                | 300.66                  | 2.963 Alert       |                    |         |
| 16,100.00                                                                                                 | 8,835.00            | 16,073.21           | 8,890.00            | 152.73          | 152.54      | -92.88                | 1,947.90                          | 7,173.90   | 890.89               | 586.24                | 304.65                  | 2.924 Alert       |                    |         |
| 16,200.00                                                                                                 | 8,835.00            | 16,173.21           | 8,890.00            | 154.73          | 154.55      | -92.88                | 1,948.50                          | 7,273.90   | 890.89               | 582.24                | 308.65                  | 2.886 Alert       |                    |         |
| 16,300.00                                                                                                 | 8,835.00            | 16,273.21           | 8,890.00            | 156.73          | 156.55      | -92.88                | 1,949.10                          | 7,373.89   | 890.89               | 578.24                | 312.65                  | 2.849 Alert       |                    |         |
| 16,400.00                                                                                                 | 8,835.00            | 16,373.21           | 8,890.00            | 158.74          | 158.55      | -92.88                | 1,949.69                          | 7,473.89   | 890.89               | 574.24                | 316.66                  | 2.813 Alert       |                    |         |
| 16,500.00                                                                                                 | 8,835.00            | 16,473.21           | 8,890.00            | 160.74          | 160.56      | -92.88                | 1,950.29                          | 7,573.89   | 890.89               | 570.24                | 320.66                  | 2.778 Alert       |                    |         |
| 16,600.00                                                                                                 | 8,835.00            | 16,573.21           | 8,890.00            | 162.74          | 162.56      | -92.88                | 1,950.89                          | 7,673.89   | 890.90               | 566.23                | 324.67                  | 2.744 Alert       |                    |         |
| 16,700.00                                                                                                 | 8,835.00            | 16,673.21           | 8,890.00            | 164.75          | 164.57      | -92.88                | 1,951.48                          | 7,773.89   | 890.90               | 562.22                | 328.68                  | 2.711 Alert       |                    |         |
| 16,800.00                                                                                                 | 8,835.00            | 16,773.21           | 8,890.00            | 166.76          | 166.58      | -92.88                | 1,952.08                          | 7,873.89   | 890.90               | 558.21                | 332.69                  | 2.678 Alert       |                    |         |
| 16,900.00                                                                                                 | 8,835.00            | 16,873.21           | 8,890.00            | 168.77          | 168.59      | -92.88                | 1,952.68                          | 7,973.88   | 890.90               | 554.20                | 336.70                  | 2.646 Alert       |                    |         |
| 17,000.00                                                                                                 | 8,835.00            | 16,973.21           | 8,890.00            | 170.77          | 170.60      | -92.88                | 1,953.27                          | 8,073.88   | 890.90               | 550.19                | 340.71                  | 2.615 Alert       |                    |         |
| 17,100.00                                                                                                 | 8,835.00            | 17,073.21           | 8,890.00            | 172.78          | 172.61      | -92.88                | 1,953.87                          | 8,173.88   | 890.90               | 546.17                | 344.73                  | 2.584 Alert       |                    |         |
| 17,200.00                                                                                                 | 8,835.00            | 17,173.21           | 8,890.00            | 174.79          | 174.62      | -92.88                | 1,954.47                          | 8,273.88   | 890.90               | 542.16                | 348.75                  | 2.555 Alert       |                    |         |
| 17,300.00                                                                                                 | 8,835.00            | 17,273.21           | 8,890.00            | 176.81          | 176.63      | -92.88                | 1,955.06                          | 8,373.88   | 890.90               | 538.14                | 352.76                  | 2.525 Alert       |                    |         |
| 17,400.00                                                                                                 | 8,835.00            | 17,373.21           | 8,890.00            | 178.82          | 178.65      | -92.88                | 1,955.66                          | 8,473.87   | 890.90               | 534.12                | 356.79                  | 2.497 Minor Risk  |                    |         |
| 17,500.00                                                                                                 | 8,835.00            | 17,473.21           | 8,890.00            | 180.83          | 180.66      | -92.88                | 1,956.26                          | 8,573.87   | 890.90               | 530.10                | 360.81                  | 2.469 Minor Risk  |                    |         |
| 17,600.00                                                                                                 | 8,835.00            | 17,573.21           | 8,890.00            | 182.84          | 182.67      | -92.88                | 1,956.85                          | 8,673.87   | 890.90               | 526.07                | 364.83                  | 2.442 Minor Risk  |                    |         |
| 17,700.00                                                                                                 | 8,835.00            | 17,673.21           | 8,890.00            | 184.86          | 184.69      | -92.88                | 1,957.45                          | 8,773.87   | 890.91               | 522.05                | 368.86                  | 2.415 Minor Risk  |                    |         |
| 17,800.00                                                                                                 | 8,835.00            | 17,773.21           | 8,890.00            | 186.87          | 186.71      | -92.88                | 1,958.05                          | 8,873.87   | 890.91               | 518.02                | 372.88                  | 2.389 Minor Risk  |                    |         |
| 17,900.00                                                                                                 | 8,835.00            | 17,873.21           | 8,890.00            | 188.89          | 188.72      | -92.88                | 1,958.64                          | 8,973.87   | 890.91               | 514.00                | 376.91                  | 2.364 Minor Risk  |                    |         |
| 18,000.00                                                                                                 | 8,835.00            | 17,973.21           | 8,890.00            | 190.91          | 190.74      | -92.88                | 1,959.24                          | 9,073.86   | 890.91               | 509.97                | 380.94                  | 2.339 Minor Risk  |                    |         |
| 18,100.00                                                                                                 | 8,835.00            | 18,073.21           | 8,890.00            | 192.92          | 192.76      | -92.88                | 1,959.84                          | 9,173.86   | 890.91               | 505.94                | 384.97                  | 2.314 Minor Risk  |                    |         |
| 18,200.00                                                                                                 | 8,835.00            | 18,173.21           | 8,890.00            | 194.94          | 194.78      | -92.88                | 1,960.44                          | 9,273.86   | 890.91               | 501.91                | 389.00                  | 2.290 Minor Risk  |                    |         |
| 18,300.00                                                                                                 | 8,835.00            | 18,273.21           | 8,890.00            | 196.96          | 196.80      | -92.88                | 1,961.03                          | 9,373.86   | 890.91               | 497.88                | 393.03                  | 2.267 Minor Risk  |                    |         |
| 18,400.00                                                                                                 | 8,835.00            | 18,373.21           | 8,890.00            | 198.98          | 198.82      | -92.88                | 1,961.63                          | 9,473.86   | 890.91               | 493.84                | 397.07                  | 2.244 Minor Risk  |                    |         |
| 18,500.00                                                                                                 | 8,835.00            | 18,473.21           | 8,890.00            | 201.00          | 200.84      | -92.88                | 1,962.23                          | 9,573.86   | 890.91               | 489.81                | 401.10                  | 2.221 Minor Risk  |                    |         |
| 18,600.00                                                                                                 | 8,835.00            | 18,573.21           | 8,890.00            | 203.02          | 202.86      | -92.88                | 1,962.82                          | 9,673.85   | 890.91               | 485.78                | 405.14                  | 2.199 Minor Risk  |                    |         |
| 18,700.00                                                                                                 | 8,835.00            | 18,673.21           | 8,890.00            | 205.04          | 204.88      | -92.88                | 1,963.42                          | 9,773.85   | 890.91               | 481.74                | 409.18                  | 2.177 Minor Risk  |                    |         |
| 18,800.00                                                                                                 | 8,835.00            | 18,773.21           | 8,890.00            | 207.06          | 206.90      | -92.88                | 1,964.02                          | 9,873.85   | 890.92               | 477.70                | 413.21                  | 2.156 Minor Risk  |                    |         |
| 18,900.00                                                                                                 | 8,835.00            | 18,873.21           | 8,890.00            | 209.08          | 208.92      | -92.88                | 1,964.61                          | 9,973.85   | 890.92               | 473.66                | 417.25                  | 2.135 Minor Risk  |                    |         |
| 19,000.00                                                                                                 | 8,835.00            | 18,973.21           | 8,890.00            | 211.10          | 210.94      | -92.88                | 1,965.21                          | 10,073.85  | 890.92               | 469.63                | 421.29                  | 2.115 Minor Risk  |                    |         |
| 19,100.00                                                                                                 | 8,835.00            | 19,073.21           | 8,890.00            | 213.12          | 212.97      | -92.88                | 1,965.81                          | 10,173.84  | 890.92               | 465.59                | 425.33                  | 2.095 Minor Risk  |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 332H - Wellbore #1 - Permit Plan 1 |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 0.00 ft            |
|-----------------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|--------------------|
| Survey Program: 0-MWD+IFR1                                                                                |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 0.50 ft            |
| Reference                                                                                                 |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                           | Warning            |
| Measured Depth<br>(ft)                                                                                    | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |                    |
| 19,200.00                                                                                                 | 8,835.00               | 19,173.21              | 8,890.00               | 215.15            | 214.99         | -92.88                      | 1,966.40                                | 10,273.84     | 890.92                     | 461.55                      | 429.37                        | 2.075                     | Minor Risk         |
| 19,308.27                                                                                                 | 8,835.00               | 19,281.48              | 8,890.00               | 217.34            | 217.18         | -92.88                      | 1,967.05                                | 10,382.11     | 890.92                     | 457.17                      | 433.75                        | 2.054                     | Minor Risk, ES, SF |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Site Error:       | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Well Error:       | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                          |         |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor        | Warning |
| 0.00                       | 0.00                | 0.30                | -0.30               | 0.50            | 0.50        | 179.89                | -29.97                            | 0.06       | 29.97                |                       |                         |                          |         |
| 100.00                     | 100.00              | 100.30              | 99.70               | 0.52            | 0.52        | 179.89                | -29.97                            | 0.06       | 29.97                | 28.93                 | 1.04                    | 28.935                   |         |
| 200.00                     | 200.00              | 200.30              | 199.70              | 0.70            | 0.70        | 179.89                | -29.97                            | 0.06       | 29.97                | 28.57                 | 1.40                    | 21.332                   |         |
| 300.00                     | 300.00              | 300.30              | 299.70              | 0.99            | 0.99        | 179.89                | -29.97                            | 0.06       | 29.97                | 27.99                 | 1.98                    | 15.170                   |         |
| 400.00                     | 400.00              | 400.30              | 399.70              | 1.31            | 1.31        | 179.89                | -29.97                            | 0.06       | 29.97                | 27.35                 | 2.62                    | 11.443                   |         |
| 500.00                     | 500.00              | 500.30              | 499.70              | 1.65            | 1.65        | 179.89                | -29.97                            | 0.06       | 29.97                | 26.68                 | 3.29                    | 9.101                    |         |
| 600.00                     | 600.00              | 600.30              | 599.70              | 1.99            | 1.99        | 179.89                | -29.97                            | 0.06       | 29.97                | 25.99                 | 3.98                    | 7.526                    |         |
| 700.00                     | 700.00              | 700.30              | 699.70              | 2.34            | 2.34        | 179.89                | -29.97                            | 0.06       | 29.97                | 25.29                 | 4.68                    | 6.404                    |         |
| 800.00                     | 800.00              | 800.30              | 799.70              | 2.69            | 2.69        | 179.89                | -29.97                            | 0.06       | 29.97                | 24.59                 | 5.38                    | 5.568                    |         |
| 900.00                     | 900.00              | 900.30              | 899.70              | 3.04            | 3.04        | 179.89                | -29.97                            | 0.06       | 29.97                | 23.88                 | 6.09                    | 4.923 Alert              |         |
| 1,000.00                   | 1,000.00            | 1,000.30            | 999.70              | 3.40            | 3.40        | 179.89                | -29.97                            | 0.06       | 29.97                | 23.17                 | 6.80                    | 4.410 Alert              |         |
| 1,100.00                   | 1,100.00            | 1,100.30            | 1,099.70            | 3.75            | 3.75        | 179.89                | -29.97                            | 0.06       | 29.97                | 22.46                 | 7.51                    | 3.993 Alert              |         |
| 1,200.00                   | 1,200.00            | 1,200.30            | 1,199.70            | 4.11            | 4.11        | 179.89                | -29.97                            | 0.06       | 29.97                | 21.75                 | 8.22                    | 3.647 Alert              |         |
| 1,300.00                   | 1,300.00            | 1,300.30            | 1,299.70            | 4.46            | 4.47        | 179.89                | -29.97                            | 0.06       | 29.97                | 21.04                 | 8.93                    | 3.356 Alert              |         |
| 1,400.00                   | 1,400.00            | 1,400.30            | 1,399.70            | 4.82            | 4.82        | 179.89                | -29.97                            | 0.06       | 29.97                | 20.33                 | 9.64                    | 3.108 Alert              |         |
| 1,500.00                   | 1,500.00            | 1,500.30            | 1,499.70            | 5.18            | 5.18        | 179.89                | -29.97                            | 0.06       | 29.97                | 19.61                 | 10.36                   | 2.894 Alert              |         |
| 1,600.00                   | 1,600.00            | 1,600.30            | 1,599.70            | 5.53            | 5.54        | 179.89                | -29.97                            | 0.06       | 29.97                | 18.90                 | 11.07                   | 2.707 Alert              |         |
| 1,700.00                   | 1,700.00            | 1,700.30            | 1,699.70            | 5.89            | 5.89        | 179.89                | -29.97                            | 0.06       | 29.97                | 18.19                 | 11.78                   | 2.543 Alert              |         |
| 1,800.00                   | 1,800.00            | 1,800.30            | 1,799.70            | 6.25            | 6.25        | 179.89                | -29.97                            | 0.06       | 29.97                | 17.47                 | 12.50                   | 2.398 Minor Risk         |         |
| 1,900.00                   | 1,900.00            | 1,900.30            | 1,899.70            | 6.61            | 6.61        | 179.89                | -29.97                            | 0.06       | 29.97                | 16.76                 | 13.21                   | 2.268 Minor Risk         |         |
| 2,000.00                   | 2,000.00            | 2,000.30            | 1,999.70            | 6.96            | 6.96        | 179.89                | -29.97                            | 0.06       | 29.97                | 16.04                 | 13.93                   | 2.152 Minor Risk, CC, ES |         |
| 2,100.00                   | 2,099.99            | 2,100.31            | 2,099.69            | 7.32            | 7.32        | -167.69               | -29.97                            | 0.06       | 30.82                | 16.18                 | 14.64                   | 2.105 Minor Risk         |         |
| 2,200.00                   | 2,199.96            | 2,200.34            | 2,199.66            | 7.68            | 7.68        | -168.64               | -29.97                            | 0.06       | 33.38                | 18.03                 | 15.36                   | 2.174 Minor Risk         |         |
| 2,300.00                   | 2,299.86            | 2,300.44            | 2,299.56            | 8.04            | 8.04        | -169.94               | -29.97                            | 0.06       | 37.67                | 21.60                 | 16.07                   | 2.344 Minor Risk         |         |
| 2,400.00                   | 2,399.68            | 2,400.62            | 2,399.38            | 8.39            | 8.40        | -171.33               | -29.97                            | 0.06       | 43.69                | 26.91                 | 16.79                   | 2.603 Alert              |         |
| 2,500.00                   | 2,499.37            | 2,500.93            | 2,499.07            | 8.75            | 8.76        | -172.64               | -29.97                            | 0.06       | 51.46                | 33.96                 | 17.51                   | 2.940 Alert              |         |
| 2,600.00                   | 2,598.90            | 2,601.40            | 2,598.60            | 9.11            | 9.11        | -173.78               | -29.97                            | 0.06       | 60.98                | 42.76                 | 18.22                   | 3.347 Alert              |         |
| 2,700.00                   | 2,698.26            | 2,702.04            | 2,697.96            | 9.46            | 9.48        | -174.74               | -29.97                            | 0.06       | 72.25                | 53.31                 | 18.94                   | 3.815 Alert              |         |
| 2,800.00                   | 2,797.40            | 2,802.90            | 2,797.10            | 9.82            | 9.84        | -175.54               | -29.97                            | 0.06       | 85.25                | 65.60                 | 19.66                   | 4.337 Alert              |         |
| 2,900.00                   | 2,896.30            | 2,904.00            | 2,896.00            | 10.18           | 10.20       | -176.19               | -29.97                            | 0.06       | 100.00               | 79.62                 | 20.38                   | 4.908 Alert              |         |
| 3,000.00                   | 2,994.93            | 3,005.37            | 2,994.63            | 10.54           | 10.56       | -176.72               | -29.97                            | 0.06       | 116.47               | 95.38                 | 21.10                   | 5.521                    |         |
| 3,100.00                   | 3,093.26            | 3,107.05            | 3,092.96            | 10.90           | 10.93       | -177.15               | -29.97                            | 0.06       | 134.67               | 112.85                | 21.82                   | 6.173                    |         |
| 3,195.07                   | 3,186.42            | 3,186.12            | 3,186.12            | 11.24           | 11.21       | -177.49               | -29.97                            | 0.06       | 153.56               | 131.12                | 22.44                   | 6.844                    |         |
| 3,200.00                   | 3,191.25            | 3,209.05            | 3,190.95            | 11.26           | 11.29       | -177.51               | -29.97                            | 0.06       | 154.58               | 132.04                | 22.54                   | 6.858                    |         |
| 3,300.00                   | 3,289.08            | 3,288.78            | 3,288.78            | 11.62           | 11.58       | -177.80               | -29.97                            | 0.06       | 175.27               | 152.09                | 23.18                   | 7.561                    |         |
| 3,400.00                   | 3,386.91            | 3,386.61            | 3,386.61            | 11.98           | 11.93       | -178.04               | -29.97                            | 0.06       | 195.97               | 172.08                | 23.89                   | 8.203                    |         |
| 3,500.00                   | 3,484.74            | 3,484.44            | 3,484.44            | 12.35           | 12.28       | -178.22               | -29.97                            | 0.06       | 216.66               | 192.07                | 24.60                   | 8.808                    |         |
| 3,600.00                   | 3,582.58            | 3,582.28            | 3,582.28            | 12.72           | 12.63       | -178.38               | -29.97                            | 0.06       | 237.36               | 212.05                | 25.31                   | 9.378                    |         |
| 3,700.00                   | 3,680.41            | 3,680.11            | 3,680.11            | 13.09           | 12.98       | -178.51               | -29.97                            | 0.06       | 258.06               | 232.04                | 26.02                   | 9.917                    |         |
| 3,800.00                   | 3,778.24            | 3,777.94            | 3,777.94            | 13.46           | 13.33       | -178.62               | -29.97                            | 0.06       | 278.76               | 252.03                | 26.73                   | 10.427                   |         |
| 3,900.00                   | 3,876.08            | 3,875.78            | 3,875.78            | 13.83           | 13.68       | -178.71               | -29.97                            | 0.06       | 299.46               | 272.02                | 27.45                   | 10.910                   |         |
| 4,000.00                   | 3,973.91            | 3,973.61            | 3,973.61            | 14.21           | 14.03       | -178.80               | -29.97                            | 0.06       | 320.17               | 292.00                | 28.16                   | 11.368                   |         |
| 4,100.00                   | 4,071.74            | 4,074.35            | 4,074.35            | 14.58           | 14.39       | -178.81               | -29.73                            | -0.36      | 340.56               | 311.67                | 28.89                   | 11.787                   |         |
| 4,200.00                   | 4,169.57            | 4,176.56            | 4,176.53            | 14.96           | 14.75       | -178.61               | -28.63                            | -2.31      | 359.86               | 330.23                | 29.63                   | 12.147                   |         |
| 4,300.00                   | 4,267.41            | 4,279.18            | 4,279.07            | 15.33           | 15.10       | -178.21               | -26.62                            | -5.86      | 378.01               | 347.66                | 30.36                   | 12.452                   |         |
| 4,400.00                   | 4,365.24            | 4,382.14            | 4,381.86            | 15.71           | 15.47       | -177.65               | -23.70                            | -11.03     | 395.05               | 363.95                | 31.09                   | 12.706                   |         |
| 4,500.00                   | 4,463.07            | 4,482.18            | 4,481.65            | 16.09           | 15.82       | -176.99               | -20.19                            | -17.25     | 411.25               | 379.43                | 31.82                   | 12.926                   |         |
| 4,600.00                   | 4,560.90            | 4,580.77            | 4,579.97            | 16.47           | 16.17       | -176.39               | -16.67                            | -23.46     | 427.44               | 394.90                | 32.53                   | 13.138                   |         |
| 4,700.00                   | 4,658.74            | 4,679.35            | 4,678.30            | 16.85           | 16.51       | -175.83               | -13.16                            | -29.67     | 443.67               | 410.42                | 33.26                   | 13.341                   |         |
| 4,800.00                   | 4,756.57            | 4,777.94            | 4,776.62            | 17.23           | 16.86       | -175.31               | -9.65                             | -35.88     | 459.94               | 425.97                | 33.98                   | 13.537                   |         |
| 4,900.00                   | 4,854.40            | 4,876.52            | 4,874.95            | 17.61           | 17.21       | -174.82               | -6.14                             | -42.10     | 476.25               | 441.55                | 34.70                   | 13.725                   |         |
| 5,000.00                   | 4,952.23            | 4,975.10            | 4,973.27            | 17.99           | 17.56       | -174.37               | -2.63                             | -48.31     | 492.59               | 457.16                | 35.42                   | 13.906                   |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                   | 5,050.07            | 5,073.69            | 5,071.60            | 18.37           | 17.91       | -173.94               | 0.88                              | -54.52     | 508.95               | 472.81                | 36.15                   | 14.080            |                    |         |
| 5,200.00                   | 5,147.90            | 5,172.27            | 5,169.92            | 18.75           | 18.26       | -173.55               | 4.39                              | -60.73     | 525.34               | 488.47                | 36.87                   | 14.248            |                    |         |
| 5,300.00                   | 5,245.73            | 5,270.86            | 5,268.25            | 19.14           | 18.61       | -173.17               | 7.90                              | -66.94     | 541.76               | 504.16                | 37.60                   | 14.410            |                    |         |
| 5,400.00                   | 5,343.56            | 5,369.44            | 5,366.57            | 19.52           | 18.96       | -172.82               | 11.41                             | -73.15     | 558.19               | 519.87                | 38.32                   | 14.565            |                    |         |
| 5,500.00                   | 5,441.40            | 5,468.02            | 5,464.90            | 19.90           | 19.31       | -172.49               | 14.92                             | -79.36     | 574.65               | 535.60                | 39.05                   | 14.716            |                    |         |
| 5,600.00                   | 5,539.23            | 5,566.61            | 5,563.22            | 20.29           | 19.66       | -172.18               | 18.43                             | -85.57     | 591.12               | 551.34                | 39.78                   | 14.861            |                    |         |
| 5,700.00                   | 5,637.06            | 5,665.19            | 5,661.55            | 20.67           | 20.01       | -171.88               | 21.94                             | -91.79     | 607.61               | 567.10                | 40.51                   | 15.001            |                    |         |
| 5,800.00                   | 5,734.90            | 5,763.77            | 5,759.87            | 21.05           | 20.36       | -171.60               | 25.45                             | -98.00     | 624.11               | 582.88                | 41.23                   | 15.136            |                    |         |
| 5,900.00                   | 5,832.73            | 5,862.36            | 5,858.20            | 21.44           | 20.71       | -171.33               | 28.96                             | -104.21    | 640.63               | 598.67                | 41.96                   | 15.266            |                    |         |
| 6,000.00                   | 5,930.56            | 5,960.94            | 5,956.53            | 21.83           | 21.06       | -171.08               | 32.47                             | -110.42    | 657.16               | 614.47                | 42.69                   | 15.393            |                    |         |
| 6,100.00                   | 6,028.39            | 6,059.53            | 6,054.85            | 22.21           | 21.42       | -170.84               | 35.99                             | -116.63    | 673.70               | 630.28                | 43.42                   | 15.515            |                    |         |
| 6,200.00                   | 6,126.23            | 6,158.11            | 6,153.18            | 22.60           | 21.77       | -170.61               | 39.50                             | -122.84    | 690.26               | 646.10                | 44.15                   | 15.633            |                    |         |
| 6,300.00                   | 6,224.06            | 6,256.69            | 6,251.50            | 22.98           | 22.12       | -170.39               | 43.01                             | -129.05    | 706.82               | 661.94                | 44.88                   | 15.747            |                    |         |
| 6,400.00                   | 6,321.89            | 6,355.28            | 6,349.83            | 23.37           | 22.47       | -170.18               | 46.52                             | -135.26    | 723.39               | 677.78                | 45.62                   | 15.858            |                    |         |
| 6,500.00                   | 6,419.72            | 6,453.86            | 6,448.15            | 23.76           | 22.83       | -169.99               | 50.03                             | -141.47    | 739.98               | 693.63                | 46.35                   | 15.966            |                    |         |
| 6,600.00                   | 6,517.56            | 6,552.44            | 6,546.48            | 24.14           | 23.18       | -169.79               | 53.54                             | -147.69    | 756.57               | 709.49                | 47.08                   | 16.070            |                    |         |
| 6,700.00                   | 6,615.39            | 6,651.03            | 6,644.80            | 24.53           | 23.53       | -169.61               | 57.05                             | -153.90    | 773.16               | 725.35                | 47.81                   | 16.171            |                    |         |
| 6,800.00                   | 6,713.22            | 6,749.61            | 6,743.13            | 24.92           | 23.89       | -169.44               | 60.56                             | -160.11    | 789.77               | 741.22                | 48.55                   | 16.269            |                    |         |
| 6,900.00                   | 6,811.05            | 6,848.20            | 6,841.45            | 25.30           | 24.24       | -169.27               | 64.07                             | -166.32    | 806.38               | 757.10                | 49.28                   | 16.364            |                    |         |
| 7,000.00                   | 6,908.89            | 6,946.78            | 6,939.78            | 25.69           | 24.59       | -169.11               | 67.58                             | -172.53    | 823.00               | 772.99                | 50.01                   | 16.456            |                    |         |
| 7,100.00                   | 7,006.72            | 7,045.36            | 7,038.10            | 26.08           | 24.95       | -168.96               | 71.09                             | -178.74    | 839.62               | 788.88                | 50.75                   | 16.546            |                    |         |
| 7,200.00                   | 7,104.55            | 7,143.95            | 7,136.43            | 26.47           | 25.30       | -168.81               | 74.60                             | -184.95    | 856.25               | 804.77                | 51.48                   | 16.633            |                    |         |
| 7,216.87                   | 7,121.05            | 7,160.58            | 7,153.01            | 26.53           | 25.36       | -168.78               | 75.19                             | -186.00    | 859.06               | 807.46                | 51.60                   | 16.647            |                    |         |
| 7,300.00                   | 7,202.57            | 7,242.67            | 7,234.89            | 26.85           | 25.65       | -168.69               | 78.12                             | -191.17    | 872.01               | 819.80                | 52.21                   | 16.701            |                    |         |
| 7,400.00                   | 7,301.06            | 7,341.74            | 7,333.71            | 27.23           | 26.01       | -168.55               | 81.65                             | -197.41    | 885.28               | 832.33                | 52.95                   | 16.720            |                    |         |
| 7,500.00                   | 7,399.97            | 7,441.11            | 7,432.81            | 27.61           | 26.37       | -168.37               | 85.18                             | -203.67    | 896.00               | 842.33                | 53.68                   | 16.693            |                    |         |
| 7,600.00                   | 7,499.23            | 7,540.70            | 7,532.14            | 27.98           | 26.73       | -168.16               | 88.73                             | -209.95    | 904.19               | 849.79                | 54.40                   | 16.621            |                    |         |
| 7,700.00                   | 7,598.77            | 7,640.45            | 7,631.63            | 28.34           | 27.08       | -167.90               | 92.28                             | -216.23    | 909.84               | 854.72                | 55.12                   | 16.505            |                    |         |
| 7,800.00                   | 7,698.53            | 7,738.08            | 7,729.00            | 28.70           | 27.44       | -167.62               | 95.74                             | -222.35    | 912.98               | 857.15                | 55.83                   | 16.353            |                    |         |
| 7,900.00                   | 7,798.44            | 7,827.37            | 7,818.16            | 29.05           | 27.76       | -167.41               | 98.19                             | -226.69    | 914.38               | 857.91                | 56.48                   | 16.190            |                    |         |
| 8,000.00                   | 7,898.42            | 7,916.77            | 7,907.50            | 29.39           | 28.07       | -167.27               | 99.62                             | -229.22    | 914.40               | 857.29                | 57.11                   | 16.010            |                    |         |
| 8,013.58                   | 7,912.00            | 7,928.91            | 7,919.64            | 29.43           | 28.12       | 179.96                | 99.74                             | -229.42    | 914.30               | 857.10                | 57.20                   | 15.985            |                    |         |
| 8,100.00                   | 7,998.42            | 8,007.39            | 7,998.12            | 29.73           | 28.40       | 180.00                | 100.03                            | -229.94    | 913.97               | 856.22                | 57.75                   | 15.827            |                    |         |
| 8,200.00                   | 8,098.42            | 8,107.39            | 8,098.12            | 30.07           | 28.75       | 180.00                | 100.03                            | -229.94    | 913.97               | 855.52                | 58.45                   | 15.638            |                    |         |
| 8,300.00                   | 8,198.42            | 8,207.39            | 8,198.12            | 30.41           | 29.11       | 180.00                | 100.03                            | -229.94    | 913.97               | 854.82                | 59.15                   | 15.453            |                    |         |
| 8,363.62                   | 8,262.04            | 8,271.01            | 8,261.74            | 30.62           | 29.33       | 180.00                | 100.03                            | -229.94    | 913.97               | 854.38                | 59.59                   | 15.338            |                    |         |
| 8,400.00                   | 8,298.40            | 8,307.37            | 8,298.10            | 30.75           | 29.46       | 90.41                 | 100.03                            | -229.94    | 913.98               | 854.14                | 59.84                   | 15.273            |                    |         |
| 8,450.00                   | 8,348.10            | 8,357.38            | 8,348.11            | 30.91           | 29.64       | 90.73                 | 100.03                            | -229.83    | 914.03               | 853.85                | 60.18                   | 15.188            |                    |         |
| 8,500.00                   | 8,397.14            | 8,408.72            | 8,399.33            | 31.07           | 29.81       | 91.14                 | 100.07                            | -226.54    | 914.12               | 853.60                | 60.52                   | 15.103            |                    |         |
| 8,550.00                   | 8,445.15            | 8,460.68            | 8,450.65            | 31.23           | 29.98       | 91.55                 | 100.16                            | -218.56    | 914.23               | 853.36                | 60.87                   | 15.019            |                    |         |
| 8,600.00                   | 8,491.77            | 8,513.27            | 8,501.64            | 31.38           | 30.16       | 91.94                 | 100.30                            | -205.79    | 914.36               | 853.14                | 61.22                   | 14.936            |                    |         |
| 8,650.00                   | 8,536.65            | 8,566.48            | 8,551.83            | 31.52           | 30.33       | 92.32                 | 100.49                            | -188.16    | 914.50               | 852.93                | 61.56                   | 14.854            |                    |         |
| 8,700.00                   | 8,579.43            | 8,620.31            | 8,600.72            | 31.66           | 30.50       | 92.68                 | 100.74                            | -165.66    | 914.64               | 852.73                | 61.91                   | 14.773            |                    |         |
| 8,750.00                   | 8,619.80            | 8,674.75            | 8,647.78            | 31.80           | 30.68       | 93.03                 | 101.04                            | -138.36    | 914.77               | 852.51                | 62.26                   | 14.693            |                    |         |
| 8,800.00                   | 8,657.44            | 8,729.76            | 8,692.50            | 31.93           | 30.85       | 93.35                 | 101.39                            | -106.36    | 914.89               | 852.29                | 62.61                   | 14.614            |                    |         |
| 8,850.00                   | 8,692.08            | 8,785.31            | 8,734.33            | 32.06           | 31.03       | 93.64                 | 101.79                            | -69.84     | 915.00               | 852.04                | 62.96                   | 14.533            |                    |         |
| 8,900.00                   | 8,723.44            | 8,841.35            | 8,772.75            | 32.19           | 31.22       | 93.91                 | 102.24                            | -29.07     | 915.07               | 851.74                | 63.33                   | 14.450            |                    |         |
| 8,950.00                   | 8,751.29            | 8,897.84            | 8,807.26            | 32.34           | 31.41       | 94.14                 | 102.73                            | 15.62      | 915.10               | 851.39                | 63.71                   | 14.363            |                    |         |
| 9,000.00                   | 8,775.42            | 8,954.71            | 8,837.38            | 32.50           | 31.63       | 94.34                 | 103.26                            | 63.83      | 915.09               | 850.97                | 64.13                   | 14.270            |                    |         |
| 9,050.00                   | 8,795.64            | 9,011.90            | 8,862.71            | 32.67           | 31.86       | 94.50                 | 103.82                            | 115.07     | 915.03               | 850.46                | 64.58                   | 14.170            |                    |         |
| 9,100.00                   | 8,811.80            | 9,069.31            | 8,882.88            | 32.87           | 32.12       | 94.61                 | 104.42                            | 168.80     | 914.92               | 849.85                | 65.06                   | 14.062            |                    |         |
| 9,150.00                   | 8,823.77            | 9,126.88            | 8,897.60            | 33.10           | 32.40       | 94.69                 | 105.03                            | 224.42     | 914.74               | 849.15                | 65.59                   | 13.947            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                |                |                |                 |        |                   |                        |            |                 |                  |                    |                   | Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 334H - Wellbore #1 - Permit Plan 1 |  | Offset Site Error: |  | 0.00 ft |
|----------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|--------------------|-------------------|--------------------------------------------------------------------------------------|--|--------------------|--|---------|
| Survey Program: 0-MWD+IFR1 |                |                |                |                 |        |                   |                        |            |                 |                  |                    |                   |                                                                                      |  | Offset Well Error: |  | 0.50 ft |
| Reference                  |                | Offset         |                | Semi Major Axis |        |                   | Distance               |            |                 |                  |                    |                   |                                                                                      |  |                    |  |         |
| Measured Depth             | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre |            | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | Warning                                                                              |  |                    |  |         |
| Depth (ft)                 | Depth (ft)     | Depth (ft)     | Depth (ft)     | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft) | (ft)            | (ft)             | (ft)               |                   |                                                                                      |  |                    |  |         |
| 9,200.00                   | 8,831.47       | 9,184.51       | 8,906.67       | 33.34           | 32.70  | 94.73             | 105.65                 | 281.31     | 914.51          | 848.36           | 66.15              | 13.824            |                                                                                      |  |                    |  |         |
| 9,250.00                   | 8,834.84       | 9,242.13       | 8,909.98       | 33.60           | 33.03  | 94.73             | 106.28                 | 338.80     | 914.22          | 847.47           | 66.75              | 13.696            |                                                                                      |  |                    |  |         |
| 9,263.62                   | 8,835.00       | 9,256.30       | 8,910.00       | 33.67           | 33.11  | 94.73             | 106.44                 | 352.97     | 914.14          | 847.22           | 66.91              | 13.662            |                                                                                      |  |                    |  |         |
| 9,300.00                   | 8,835.00       | 9,307.32       | 8,910.00       | 33.88           | 33.43  | 94.73             | 106.84                 | 389.35     | 913.95          | 846.51           | 67.45              | 13.551            |                                                                                      |  |                    |  |         |
| 9,400.00                   | 8,835.00       | 9,407.33       | 8,910.00       | 34.53           | 34.13  | 94.73             | 107.94                 | 489.34     | 913.45          | 844.63           | 68.82              | 13.272            |                                                                                      |  |                    |  |         |
| 9,500.00                   | 8,835.00       | 9,507.33       | 8,910.00       | 35.30           | 34.94  | 94.73             | 109.04                 | 589.33     | 912.95          | 842.54           | 70.41              | 12.966            |                                                                                      |  |                    |  |         |
| 9,600.00                   | 8,835.00       | 9,607.33       | 8,910.00       | 36.17           | 35.85  | 94.73             | 110.14                 | 689.32     | 912.45          | 840.25           | 72.20              | 12.638            |                                                                                      |  |                    |  |         |
| 9,700.00                   | 8,835.00       | 9,707.33       | 8,910.00       | 37.13           | 36.85  | 94.74             | 111.24                 | 789.32     | 911.94          | 837.78           | 74.16              | 12.296            |                                                                                      |  |                    |  |         |
| 9,800.00                   | 8,835.00       | 9,807.33       | 8,910.00       | 38.18           | 37.93  | 94.74             | 112.34                 | 889.31     | 911.44          | 835.14           | 76.30              | 11.946            |                                                                                      |  |                    |  |         |
| 9,900.00                   | 8,835.00       | 9,907.33       | 8,910.00       | 39.31           | 39.10  | 94.74             | 113.44                 | 989.30     | 910.94          | 832.35           | 78.59              | 11.592            |                                                                                      |  |                    |  |         |
| 10,000.00                  | 8,835.00       | 10,007.33      | 8,910.00       | 40.51           | 40.33  | 94.74             | 114.54                 | 1,089.29   | 910.44          | 829.42           | 81.02              | 11.238            |                                                                                      |  |                    |  |         |
| 10,100.00                  | 8,835.00       | 10,107.33      | 8,910.00       | 41.78           | 41.62  | 94.75             | 115.64                 | 1,189.29   | 909.94          | 826.36           | 83.57              | 10.888            |                                                                                      |  |                    |  |         |
| 10,200.00                  | 8,835.00       | 10,207.34      | 8,910.00       | 43.10           | 42.98  | 94.75             | 116.74                 | 1,289.28   | 909.43          | 823.18           | 86.25              | 10.544            |                                                                                      |  |                    |  |         |
| 10,300.00                  | 8,835.00       | 10,307.34      | 8,910.00       | 44.49           | 44.38  | 94.75             | 117.84                 | 1,389.27   | 908.93          | 819.90           | 89.03              | 10.209            |                                                                                      |  |                    |  |         |
| 10,400.00                  | 8,835.00       | 10,407.34      | 8,910.00       | 45.92           | 45.84  | 94.75             | 118.94                 | 1,489.27   | 908.43          | 816.52           | 91.91              | 9.884             |                                                                                      |  |                    |  |         |
| 10,500.00                  | 8,835.00       | 10,507.34      | 8,910.00       | 47.39           | 47.34  | 94.76             | 120.04                 | 1,589.26   | 907.93          | 813.05           | 94.88              | 9.570             |                                                                                      |  |                    |  |         |
| 10,600.00                  | 8,835.00       | 10,607.34      | 8,910.00       | 48.91           | 48.87  | 94.76             | 121.14                 | 1,689.25   | 907.43          | 809.50           | 97.92              | 9.267             |                                                                                      |  |                    |  |         |
| 10,700.00                  | 8,835.00       | 10,707.34      | 8,910.00       | 50.47           | 50.45  | 94.76             | 122.24                 | 1,789.24   | 906.92          | 805.88           | 101.04             | 8.976             |                                                                                      |  |                    |  |         |
| 10,800.00                  | 8,835.00       | 10,807.34      | 8,910.00       | 52.06           | 52.06  | 94.77             | 123.34                 | 1,889.24   | 906.42          | 802.19           | 104.23             | 8.696             |                                                                                      |  |                    |  |         |
| 10,900.00                  | 8,835.00       | 10,907.34      | 8,910.00       | 53.68           | 53.69  | 94.77             | 124.44                 | 1,989.23   | 905.92          | 798.44           | 107.48             | 8.429             |                                                                                      |  |                    |  |         |
| 11,000.00                  | 8,835.00       | 11,007.35      | 8,910.00       | 55.32           | 55.36  | 94.77             | 125.54                 | 2,089.22   | 905.42          | 794.64           | 110.78             | 8.173             |                                                                                      |  |                    |  |         |
| 11,100.00                  | 8,835.00       | 11,107.35      | 8,910.00       | 57.00           | 57.05  | 94.77             | 126.64                 | 2,189.21   | 904.91          | 790.78           | 114.13             | 7.929             |                                                                                      |  |                    |  |         |
| 11,200.00                  | 8,835.00       | 11,207.35      | 8,910.00       | 58.70           | 58.76  | 94.78             | 127.74                 | 2,289.21   | 904.41          | 786.88           | 117.53             | 7.695             |                                                                                      |  |                    |  |         |
| 11,300.00                  | 8,835.00       | 11,307.35      | 8,910.00       | 60.41           | 60.49  | 94.78             | 128.84                 | 2,389.20   | 903.91          | 782.94           | 120.97             | 7.472             |                                                                                      |  |                    |  |         |
| 11,400.00                  | 8,835.00       | 11,407.35      | 8,910.00       | 62.15           | 62.24  | 94.78             | 129.94                 | 2,489.19   | 903.41          | 778.96           | 124.45             | 7.259             |                                                                                      |  |                    |  |         |
| 11,500.00                  | 8,835.00       | 11,507.35      | 8,910.00       | 63.91           | 64.01  | 94.78             | 131.03                 | 2,589.18   | 902.91          | 774.94           | 127.96             | 7.056             |                                                                                      |  |                    |  |         |
| 11,600.00                  | 8,835.00       | 11,607.35      | 8,910.00       | 65.69           | 65.79  | 94.79             | 132.13                 | 2,689.18   | 902.40          | 770.90           | 131.51             | 6.862             |                                                                                      |  |                    |  |         |
| 11,700.00                  | 8,835.00       | 11,707.35      | 8,910.00       | 67.47           | 67.59  | 94.79             | 133.23                 | 2,789.17   | 901.90          | 766.82           | 135.09             | 6.677             |                                                                                      |  |                    |  |         |
| 11,800.00                  | 8,835.00       | 11,807.36      | 8,910.00       | 69.28           | 69.41  | 94.79             | 134.33                 | 2,889.16   | 901.40          | 762.71           | 138.69             | 6.499             |                                                                                      |  |                    |  |         |
| 11,900.00                  | 8,835.00       | 11,907.36      | 8,910.00       | 71.09           | 71.23  | 94.79             | 135.43                 | 2,989.16   | 900.90          | 758.58           | 142.32             | 6.330             |                                                                                      |  |                    |  |         |
| 12,000.00                  | 8,835.00       | 12,007.36      | 8,910.00       | 72.92           | 73.07  | 94.80             | 136.53                 | 3,089.15   | 900.40          | 754.42           | 145.98             | 6.168             |                                                                                      |  |                    |  |         |
| 12,100.00                  | 8,835.00       | 12,107.36      | 8,910.00       | 74.76           | 74.92  | 94.80             | 137.63                 | 3,189.14   | 899.89          | 750.24           | 149.65             | 6.013             |                                                                                      |  |                    |  |         |
| 12,200.00                  | 8,835.00       | 12,207.36      | 8,910.00       | 76.61           | 76.77  | 94.80             | 138.73                 | 3,289.13   | 899.39          | 746.04           | 153.35             | 5.865             |                                                                                      |  |                    |  |         |
| 12,300.00                  | 8,835.00       | 12,307.36      | 8,910.00       | 78.47           | 78.64  | 94.81             | 139.83                 | 3,389.13   | 898.89          | 741.83           | 157.06             | 5.723             |                                                                                      |  |                    |  |         |
| 12,400.00                  | 8,835.00       | 12,407.36      | 8,910.00       | 80.34           | 80.52  | 94.81             | 140.93                 | 3,489.12   | 898.39          | 737.59           | 160.80             | 5.587             |                                                                                      |  |                    |  |         |
| 12,500.00                  | 8,835.00       | 12,507.36      | 8,910.00       | 82.22           | 82.40  | 94.81             | 142.03                 | 3,589.11   | 897.89          | 733.34           | 164.55             | 5.457             |                                                                                      |  |                    |  |         |
| 12,600.00                  | 8,835.00       | 12,607.37      | 8,910.00       | 84.11           | 84.29  | 94.81             | 143.13                 | 3,689.10   | 897.38          | 729.07           | 168.31             | 5.332             |                                                                                      |  |                    |  |         |
| 12,700.00                  | 8,835.00       | 12,707.37      | 8,910.00       | 86.00           | 86.19  | 94.82             | 144.23                 | 3,789.10   | 896.88          | 724.79           | 172.09             | 5.212             |                                                                                      |  |                    |  |         |
| 12,800.00                  | 8,835.00       | 12,807.37      | 8,910.00       | 87.90           | 88.10  | 94.82             | 145.33                 | 3,889.09   | 896.38          | 720.50           | 175.88             | 5.096             |                                                                                      |  |                    |  |         |
| 12,900.00                  | 8,835.00       | 12,907.37      | 8,910.00       | 89.81           | 90.01  | 94.82             | 146.43                 | 3,989.08   | 895.88          | 716.19           | 179.69             | 4.986             | Alert                                                                                |  |                    |  |         |
| 13,000.00                  | 8,835.00       | 13,007.37      | 8,910.00       | 91.72           | 91.93  | 94.82             | 147.53                 | 4,089.08   | 895.38          | 711.87           | 183.51             | 4.879             | Alert                                                                                |  |                    |  |         |
| 13,100.00                  | 8,835.00       | 13,107.37      | 8,910.00       | 93.64           | 93.85  | 94.83             | 148.63                 | 4,189.07   | 894.87          | 707.54           | 187.33             | 4.777             | Alert                                                                                |  |                    |  |         |
| 13,200.00                  | 8,835.00       | 13,207.37      | 8,910.00       | 95.56           | 95.78  | 94.83             | 149.73                 | 4,289.06   | 894.37          | 703.20           | 191.17             | 4.678             | Alert                                                                                |  |                    |  |         |
| 13,300.00                  | 8,835.00       | 13,307.37      | 8,910.00       | 97.49           | 97.71  | 94.83             | 150.83                 | 4,389.05   | 893.87          | 698.85           | 195.02             | 4.583             | Alert                                                                                |  |                    |  |         |
| 13,400.00                  | 8,835.00       | 13,407.38      | 8,910.00       | 99.42           | 99.64  | 94.84             | 151.93                 | 4,489.05   | 893.37          | 694.49           | 198.88             | 4.492             | Alert                                                                                |  |                    |  |         |
| 13,500.00                  | 8,835.00       | 13,507.38      | 8,910.00       | 101.36          | 101.59 | 94.84             | 153.03                 | 4,589.04   | 892.86          | 690.12           | 202.74             | 4.404             | Alert                                                                                |  |                    |  |         |
| 13,600.00                  | 8,835.00       | 13,607.38      | 8,910.00       | 103.30          | 103.53 | 94.84             | 154.13                 | 4,689.03   | 892.36          | 685.74           | 206.62             | 4.319             | Alert                                                                                |  |                    |  |         |
| 13,700.00                  | 8,835.00       | 13,707.38      | 8,910.00       | 105.25          | 105.48 | 94.84             | 155.23                 | 4,789.02   | 891.86          | 681.36           | 210.50             | 4.237             | Alert                                                                                |  |                    |  |         |
| 13,800.00                  | 8,835.00       | 13,807.38      | 8,910.00       | 107.20          | 107.43 | 94.85             | 156.33                 | 4,889.02   | 891.36          | 676.97           | 214.39             | 4.158             | Alert                                                                                |  |                    |  |         |
| 13,900.00                  | 8,835.00       | 13,907.38      | 8,910.00       | 109.15          | 109.39 | 94.85             | 157.43                 | 4,989.01   | 890.86          | 672.57           | 218.29             | 4.081             | Alert                                                                                |  |                    |  |         |
| 14,000.00                  | 8,835.00       | 14,007.38      | 8,910.00       | 111.10          | 111.35 | 94.85             | 158.53                 | 5,089.00   | 890.35          | 668.17           | 222.19             | 4.007             | Alert                                                                                |  |                    |  |         |
| 14,100.00                  | 8,835.00       | 14,107.39      | 8,910.00       | 113.06          | 113.31 | 94.85             | 159.63                 | 5,188.99   | 889.85          | 663.76           | 226.10             | 3.936             | Alert                                                                                |  |                    |  |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                |                |                |                 |        |                   |                        |            |                 |                  |                    |                   | Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 334H - Wellbore #1 - Permit Plan 1 |  | Offset Site Error: |  | 0.00 ft |
|----------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|--------------------|-------------------|--------------------------------------------------------------------------------------|--|--------------------|--|---------|
| Survey Program: 0-MWD+IFR1 |                |                |                |                 |        |                   |                        |            |                 |                  |                    |                   |                                                                                      |  | Offset Well Error: |  | 0.50 ft |
| Reference                  |                | Offset         |                | Semi Major Axis |        |                   | Distance               |            |                 |                  |                    |                   |                                                                                      |  |                    |  |         |
| Measured Depth             | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre |            | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | Warning                                                                              |  |                    |  |         |
| (ft)                       | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft) | (ft)            | (ft)             | (ft)               |                   |                                                                                      |  |                    |  |         |
| 14,200.00                  | 8,835.00       | 14,207.39      | 8,910.00       | 115.03          | 115.27 | 94.86             | 160.73                 | 5,288.99   | 889.35          | 659.34           | 230.01             | 3.867             | Alert                                                                                |  |                    |  |         |
| 14,300.00                  | 8,835.00       | 14,307.39      | 8,910.00       | 116.99          | 117.24 | 94.86             | 161.83                 | 5,388.98   | 888.85          | 654.92           | 233.93             | 3.800             | Alert                                                                                |  |                    |  |         |
| 14,400.00                  | 8,835.00       | 14,407.39      | 8,910.00       | 118.96          | 119.21 | 94.86             | 162.93                 | 5,488.97   | 888.35          | 650.49           | 237.86             | 3.735             | Alert                                                                                |  |                    |  |         |
| 14,500.00                  | 8,835.00       | 14,507.39      | 8,910.00       | 120.93          | 121.19 | 94.87             | 164.03                 | 5,588.97   | 887.84          | 646.06           | 241.79             | 3.672             | Alert                                                                                |  |                    |  |         |
| 14,600.00                  | 8,835.00       | 14,607.39      | 8,910.00       | 122.90          | 123.16 | 94.87             | 165.13                 | 5,688.96   | 887.34          | 641.62           | 245.72             | 3.611             | Alert                                                                                |  |                    |  |         |
| 14,700.00                  | 8,835.00       | 14,707.39      | 8,910.00       | 124.88          | 125.14 | 94.87             | 166.23                 | 5,788.95   | 886.84          | 637.18           | 249.66             | 3.552             | Alert                                                                                |  |                    |  |         |
| 14,800.00                  | 8,835.00       | 14,807.39      | 8,910.00       | 126.86          | 127.12 | 94.87             | 167.33                 | 5,888.94   | 886.34          | 632.73           | 253.61             | 3.495             | Alert                                                                                |  |                    |  |         |
| 14,900.00                  | 8,835.00       | 14,907.40      | 8,910.00       | 128.84          | 129.10 | 94.88             | 168.43                 | 5,988.94   | 885.84          | 628.28           | 257.56             | 3.439             | Alert                                                                                |  |                    |  |         |
| 15,000.00                  | 8,835.00       | 15,007.40      | 8,910.00       | 130.82          | 131.08 | 94.88             | 169.53                 | 6,088.93   | 885.33          | 623.82           | 261.51             | 3.385             | Alert                                                                                |  |                    |  |         |
| 15,100.00                  | 8,835.00       | 15,107.40      | 8,910.00       | 132.80          | 133.07 | 94.88             | 170.63                 | 6,188.92   | 884.83          | 619.37           | 265.47             | 3.333             | Alert                                                                                |  |                    |  |         |
| 15,200.00                  | 8,835.00       | 15,207.40      | 8,910.00       | 134.79          | 135.06 | 94.88             | 171.72                 | 6,288.91   | 884.33          | 614.90           | 269.43             | 3.282             | Alert                                                                                |  |                    |  |         |
| 15,300.00                  | 8,835.00       | 15,307.40      | 8,910.00       | 136.78          | 137.04 | 94.89             | 172.82                 | 6,388.91   | 883.83          | 610.44           | 273.39             | 3.233             | Alert                                                                                |  |                    |  |         |
| 15,400.00                  | 8,835.00       | 15,407.40      | 8,910.00       | 138.76          | 139.04 | 94.89             | 173.92                 | 6,488.90   | 883.33          | 605.97           | 277.36             | 3.185             | Alert                                                                                |  |                    |  |         |
| 15,500.00                  | 8,835.00       | 15,507.40      | 8,910.00       | 140.76          | 141.03 | 94.89             | 175.02                 | 6,588.89   | 882.82          | 601.50           | 281.33             | 3.138             | Alert                                                                                |  |                    |  |         |
| 15,600.00                  | 8,835.00       | 15,607.40      | 8,910.00       | 142.75          | 143.02 | 94.90             | 176.12                 | 6,688.88   | 882.32          | 597.02           | 285.30             | 3.093             | Alert                                                                                |  |                    |  |         |
| 15,700.00                  | 8,835.00       | 15,707.41      | 8,910.00       | 144.74          | 145.02 | 94.90             | 177.22                 | 6,788.88   | 881.82          | 592.54           | 289.28             | 3.048             | Alert                                                                                |  |                    |  |         |
| 15,800.00                  | 8,835.00       | 15,807.41      | 8,910.00       | 146.74          | 147.01 | 94.90             | 178.32                 | 6,888.87   | 881.32          | 588.06           | 293.26             | 3.005             | Alert                                                                                |  |                    |  |         |
| 15,900.00                  | 8,835.00       | 15,907.41      | 8,910.00       | 148.73          | 149.01 | 94.90             | 179.42                 | 6,988.86   | 880.82          | 583.58           | 297.24             | 2.963             | Alert                                                                                |  |                    |  |         |
| 16,000.00                  | 8,835.00       | 16,007.41      | 8,910.00       | 150.73          | 151.01 | 94.91             | 180.52                 | 7,088.86   | 880.31          | 579.09           | 301.22             | 2.922             | Alert                                                                                |  |                    |  |         |
| 16,100.00                  | 8,835.00       | 16,107.41      | 8,910.00       | 152.73          | 153.01 | 94.91             | 181.62                 | 7,188.85   | 879.81          | 574.60           | 305.21             | 2.883             | Alert                                                                                |  |                    |  |         |
| 16,200.00                  | 8,835.00       | 16,207.41      | 8,910.00       | 154.73          | 155.01 | 94.91             | 182.72                 | 7,288.84   | 879.31          | 570.11           | 309.20             | 2.844             | Alert                                                                                |  |                    |  |         |
| 16,300.00                  | 8,835.00       | 16,307.41      | 8,910.00       | 156.73          | 157.01 | 94.92             | 183.82                 | 7,388.83   | 878.81          | 565.62           | 313.19             | 2.806             | Alert                                                                                |  |                    |  |         |
| 16,400.00                  | 8,835.00       | 16,407.41      | 8,910.00       | 158.74          | 159.02 | 94.92             | 184.92                 | 7,488.83   | 878.31          | 561.13           | 317.18             | 2.769             | Alert                                                                                |  |                    |  |         |
| 16,500.00                  | 8,835.00       | 16,507.42      | 8,910.00       | 160.74          | 161.02 | 94.92             | 186.02                 | 7,588.82   | 877.80          | 556.63           | 321.18             | 2.733             | Alert                                                                                |  |                    |  |         |
| 16,600.00                  | 8,835.00       | 16,607.42      | 8,910.00       | 162.74          | 163.03 | 94.92             | 187.12                 | 7,688.81   | 877.30          | 552.13           | 325.17             | 2.698             | Alert                                                                                |  |                    |  |         |
| 16,700.00                  | 8,835.00       | 16,707.42      | 8,910.00       | 164.75          | 165.03 | 94.93             | 188.22                 | 7,788.80   | 876.80          | 547.63           | 329.17             | 2.664             | Alert                                                                                |  |                    |  |         |
| 16,800.00                  | 8,835.00       | 16,807.42      | 8,910.00       | 166.76          | 167.04 | 94.93             | 189.32                 | 7,888.80   | 876.30          | 543.12           | 333.17             | 2.630             | Alert                                                                                |  |                    |  |         |
| 16,900.00                  | 8,835.00       | 16,907.42      | 8,910.00       | 168.77          | 169.05 | 94.93             | 190.42                 | 7,988.79   | 875.80          | 538.62           | 337.18             | 2.597             | Alert                                                                                |  |                    |  |         |
| 17,000.00                  | 8,835.00       | 17,007.42      | 8,910.00       | 170.77          | 171.06 | 94.94             | 191.52                 | 8,088.78   | 875.29          | 534.11           | 341.18             | 2.565             | Alert                                                                                |  |                    |  |         |
| 17,100.00                  | 8,835.00       | 17,107.42      | 8,910.00       | 172.78          | 173.07 | 94.94             | 192.62                 | 8,188.78   | 874.79          | 529.60           | 345.19             | 2.534             | Alert                                                                                |  |                    |  |         |
| 17,200.00                  | 8,835.00       | 17,207.42      | 8,910.00       | 174.79          | 175.08 | 94.94             | 193.72                 | 8,288.77   | 874.29          | 525.09           | 349.20             | 2.504             | Alert                                                                                |  |                    |  |         |
| 17,300.00                  | 8,835.00       | 17,307.43      | 8,910.00       | 176.81          | 177.09 | 94.94             | 194.82                 | 8,388.76   | 873.79          | 520.58           | 353.21             | 2.474             | Minor Risk                                                                           |  |                    |  |         |
| 17,400.00                  | 8,835.00       | 17,407.43      | 8,910.00       | 178.82          | 179.11 | 94.95             | 195.92                 | 8,488.75   | 873.29          | 516.07           | 357.22             | 2.445             | Minor Risk                                                                           |  |                    |  |         |
| 17,500.00                  | 8,835.00       | 17,507.43      | 8,910.00       | 180.83          | 181.12 | 94.95             | 197.02                 | 8,588.75   | 872.78          | 511.55           | 361.23             | 2.416             | Minor Risk                                                                           |  |                    |  |         |
| 17,600.00                  | 8,835.00       | 17,607.43      | 8,910.00       | 182.84          | 183.13 | 94.95             | 198.12                 | 8,688.74   | 872.28          | 507.04           | 365.25             | 2.388             | Minor Risk                                                                           |  |                    |  |         |
| 17,700.00                  | 8,835.00       | 17,707.43      | 8,910.00       | 184.86          | 185.15 | 94.96             | 199.22                 | 8,788.73   | 871.78          | 502.52           | 369.26             | 2.361             | Minor Risk                                                                           |  |                    |  |         |
| 17,800.00                  | 8,835.00       | 17,807.43      | 8,910.00       | 186.87          | 187.16 | 94.96             | 200.32                 | 8,888.72   | 871.28          | 498.00           | 373.28             | 2.334             | Minor Risk                                                                           |  |                    |  |         |
| 17,900.00                  | 8,835.00       | 17,907.43      | 8,910.00       | 188.89          | 189.18 | 94.96             | 201.42                 | 8,988.72   | 870.78          | 493.48           | 377.30             | 2.308             | Minor Risk                                                                           |  |                    |  |         |
| 18,000.00                  | 8,835.00       | 18,007.43      | 8,910.00       | 190.91          | 191.20 | 94.96             | 202.52                 | 9,088.71   | 870.27          | 488.96           | 381.32             | 2.282             | Minor Risk                                                                           |  |                    |  |         |
| 18,100.00                  | 8,835.00       | 18,107.44      | 8,910.00       | 192.92          | 193.21 | 94.97             | 203.62                 | 9,188.70   | 869.77          | 484.44           | 385.34             | 2.257             | Minor Risk                                                                           |  |                    |  |         |
| 18,200.00                  | 8,835.00       | 18,207.44      | 8,910.00       | 194.94          | 195.23 | 94.97             | 204.72                 | 9,288.69   | 869.27          | 479.91           | 389.36             | 2.233             | Minor Risk                                                                           |  |                    |  |         |
| 18,300.00                  | 8,835.00       | 18,307.44      | 8,910.00       | 196.96          | 197.25 | 94.97             | 205.82                 | 9,388.69   | 868.77          | 475.39           | 393.38             | 2.208             | Minor Risk                                                                           |  |                    |  |         |
| 18,400.00                  | 8,835.00       | 18,407.44      | 8,910.00       | 198.98          | 199.27 | 94.98             | 206.92                 | 9,488.68   | 868.27          | 470.86           | 397.41             | 2.185             | Minor Risk                                                                           |  |                    |  |         |
| 18,500.00                  | 8,835.00       | 18,507.44      | 8,910.00       | 201.00          | 201.29 | 94.98             | 208.02                 | 9,588.67   | 867.77          | 466.33           | 401.43             | 2.162             | Minor Risk                                                                           |  |                    |  |         |
| 18,600.00                  | 8,835.00       | 18,607.44      | 8,910.00       | 203.02          | 203.31 | 94.98             | 209.12                 | 9,688.67   | 867.26          | 461.81           | 405.46             | 2.139             | Minor Risk                                                                           |  |                    |  |         |
| 18,700.00                  | 8,835.00       | 18,707.44      | 8,910.00       | 205.04          | 205.33 | 94.98             | 210.22                 | 9,788.66   | 866.76          | 457.28           | 409.48             | 2.117             | Minor Risk                                                                           |  |                    |  |         |
| 18,800.00                  | 8,835.00       | 18,807.44      | 8,910.00       | 207.06          | 207.35 | 94.99             | 211.32                 | 9,888.65   | 866.26          | 452.75           | 413.51             | 2.095             | Minor Risk                                                                           |  |                    |  |         |
| 18,900.00                  | 8,835.00       | 18,907.45      | 8,910.00       | 209.08          | 209.37 | 94.99             | 212.41                 | 9,988.64   | 865.76          | 448.22           | 417.54             | 2.073             | Minor Risk                                                                           |  |                    |  |         |
| 19,000.00                  | 8,835.00       | 19,007.45      | 8,910.00       | 211.10          | 211.39 | 94.99             | 213.51                 | 10,088.64  | 865.26          | 443.68           | 421.57             | 2.052             | Minor Risk                                                                           |  |                    |  |         |
| 19,100.00                  | 8,835.00       | 19,107.45      | 8,910.00       | 213.12          | 213.41 | 95.00             | 214.61                 | 10,188.63  | 864.75          | 439.15           | 425.60             | 2.032             | Minor Risk                                                                           |  |                    |  |         |
| 19,200.00                  | 8,835.00       | 19,207.45      | 8,910.00       | 215.15          | 215.44 | 95.00             | 215.71                 | 10,288.62  | 864.25          | 434.62           | 429.63             | 2.012             | Minor Risk                                                                           |  |                    |  |         |
| 19,308.27                  | 8,835.00       | 19,300.82      | 8,910.00       | 217.34          | 217.33 | 95.00             | 216.90                 | 10,396.88  | 863.71          | 430.01           | 433.70             | 1.991             | Minor Risk, SF                                                                       |  |                    |  |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 431-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                         | 0.00                | 15.22               | 15.22               | 0.50            | 0.50        | -177.19               | -1,704.21                         | -83.63     | 1,706.27             |                       |                         |                   |                    |         |
| 100.00                       | 100.00              | 113.41              | 113.41              | 0.52            | 0.54        | -177.20               | -1,704.29                         | -83.49     | 1,706.33             | 1,705.28              | 1.05                    | 1,620.109         |                    |         |
| 200.00                       | 200.00              | 211.60              | 211.60              | 0.70            | 0.61        | -177.21               | -1,704.48                         | -83.15     | 1,706.51             | 1,705.19              | 1.32                    | 1,295.968         |                    |         |
| 300.00                       | 300.00              | 309.79              | 309.79              | 0.99            | 0.72        | -177.23               | -1,704.78                         | -82.59     | 1,706.79             | 1,705.08              | 1.71                    | 997.428           |                    |         |
| 400.00                       | 400.00              | 407.98              | 407.97              | 1.31            | 0.85        | -177.25               | -1,705.20                         | -81.83     | 1,707.18             | 1,705.02              | 2.16                    | 790.128           |                    |         |
| 500.00                       | 500.00              | 501.77              | 501.76              | 1.65            | 1.10        | -177.28               | -1,705.80                         | -80.99     | 1,707.77             | 1,705.02              | 2.75                    | 621.508           |                    |         |
| 600.00                       | 600.00              | 605.09              | 605.07              | 1.99            | 1.44        | -177.31               | -1,706.63                         | -80.21     | 1,708.55             | 1,705.12              | 3.43                    | 497.854           |                    |         |
| 700.00                       | 700.00              | 705.50              | 705.47              | 2.34            | 1.78        | -177.34               | -1,707.26                         | -79.46     | 1,709.14             | 1,705.01              | 4.12                    | 414.584           |                    |         |
| 800.00                       | 800.00              | 806.74              | 806.72              | 2.69            | 2.14        | -177.36               | -1,707.81                         | -78.88     | 1,709.65             | 1,704.83              | 4.82                    | 354.388           |                    |         |
| 900.00                       | 900.00              | 902.03              | 901.99              | 3.04            | 2.47        | -177.37               | -1,708.54                         | -78.52     | 1,710.40             | 1,704.89              | 5.51                    | 310.472           |                    |         |
| 1,000.00                     | 1,000.00            | 1,016.52            | 1,016.48            | 3.40            | 2.87        | -177.40               | -1,708.93                         | -77.68     | 1,710.70             | 1,704.44              | 6.26                    | 273.172           |                    |         |
| 1,100.00                     | 1,100.00            | 1,119.71            | 1,119.67            | 3.75            | 3.23        | -177.42               | -1,708.73                         | -77.03     | 1,710.47             | 1,703.50              | 6.98                    | 245.204           |                    |         |
| 1,200.00                     | 1,200.00            | 1,221.64            | 1,221.60            | 4.11            | 3.58        | -177.45               | -1,708.51                         | -76.12     | 1,710.21             | 1,702.53              | 7.69                    | 222.468           |                    |         |
| 1,300.00                     | 1,300.00            | 1,329.58            | 1,329.53            | 4.46            | 3.96        | -177.50               | -1,707.96                         | -74.67     | 1,709.65             | 1,701.23              | 8.42                    | 203.033           |                    |         |
| 1,400.00                     | 1,400.00            | 1,431.04            | 1,430.98            | 4.82            | 4.31        | -177.54               | -1,707.12                         | -73.47     | 1,708.77             | 1,699.64              | 9.13                    | 187.141           |                    |         |
| 1,500.00                     | 1,500.00            | 1,525.19            | 1,525.11            | 5.18            | 4.64        | -177.58               | -1,706.49                         | -72.16     | 1,708.04             | 1,698.22              | 9.82                    | 173.946           |                    |         |
| 1,600.00                     | 1,600.00            | 1,630.56            | 1,630.47            | 5.53            | 5.02        | -177.62               | -1,705.78                         | -70.92     | 1,707.32             | 1,696.77              | 10.55                   | 161.872           |                    |         |
| 1,700.00                     | 1,700.00            | 1,726.14            | 1,726.05            | 5.89            | 5.35        | -177.65               | -1,705.17                         | -69.88     | 1,706.63             | 1,695.39              | 11.24                   | 151.810           |                    |         |
| 1,800.00                     | 1,800.00            | 1,829.92            | 1,829.81            | 6.25            | 5.72        | -177.70               | -1,704.43                         | -68.48     | 1,705.87             | 1,693.90              | 11.97                   | 142.551           |                    |         |
| 1,900.00                     | 1,900.00            | 1,928.53            | 1,928.41            | 6.61            | 6.07        | -177.74               | -1,703.71                         | -67.10     | 1,705.08             | 1,692.40              | 12.67                   | 134.532           |                    |         |
| 2,000.00                     | 2,000.00            | 2,033.08            | 2,032.95            | 6.96            | 6.44        | -177.79               | -1,702.93                         | -65.73     | 1,704.29             | 1,690.88              | 13.40                   | 127.173           |                    |         |
| 2,100.00                     | 2,099.99            | 2,145.42            | 2,145.28            | 7.32            | 6.83        | -165.04               | -1,701.33                         | -65.14     | 1,703.68             | 1,689.53              | 14.15                   | 120.414           |                    |         |
| 2,104.93                     | 2,104.93            | 2,150.71            | 2,150.57            | 7.34            | 6.85        | -165.04               | -1,701.23                         | -65.13     | 1,703.67             | 1,689.49              | 14.18                   | 120.110 CC        |                    |         |
| 2,200.00                     | 2,199.96            | 2,245.86            | 2,245.70            | 7.68            | 7.18        | -165.06               | -1,699.47                         | -65.17     | 1,704.36             | 1,689.51              | 14.85                   | 114.764           |                    |         |
| 2,300.00                     | 2,299.86            | 2,344.28            | 2,344.10            | 8.04            | 7.51        | -165.07               | -1,697.79                         | -65.46     | 1,706.88             | 1,691.34              | 15.55                   | 109.795           |                    |         |
| 2,400.00                     | 2,399.68            | 2,444.31            | 2,444.12            | 8.39            | 7.86        | -165.10               | -1,696.08                         | -65.81     | 1,711.09             | 1,694.84              | 16.25                   | 105.313           |                    |         |
| 2,500.00                     | 2,499.37            | 2,542.06            | 2,541.85            | 8.75            | 8.20        | -165.14               | -1,694.46                         | -66.03     | 1,717.03             | 1,700.09              | 16.94                   | 101.340           |                    |         |
| 2,600.00                     | 2,598.90            | 2,636.09            | 2,635.88            | 9.11            | 8.52        | -165.20               | -1,693.11                         | -66.00     | 1,724.87             | 1,707.24              | 17.63                   | 97.838            |                    |         |
| 2,700.00                     | 2,698.26            | 2,734.75            | 2,734.53            | 9.46            | 8.87        | -165.28               | -1,691.98                         | -65.57     | 1,734.66             | 1,716.33              | 18.33                   | 94.618            |                    |         |
| 2,800.00                     | 2,797.40            | 2,834.20            | 2,833.97            | 9.82            | 9.22        | -165.35               | -1,690.76                         | -65.84     | 1,746.09             | 1,727.05              | 19.04                   | 91.718            |                    |         |
| 2,900.00                     | 2,896.30            | 2,941.08            | 2,940.84            | 10.18           | 9.59        | -165.44               | -1,689.44                         | -66.03     | 1,759.20             | 1,739.43              | 19.77                   | 88.996            |                    |         |
| 3,000.00                     | 2,994.93            | 3,085.30            | 3,084.98            | 10.54           | 10.09       | -165.58               | -1,684.73                         | -66.77     | 1,771.82             | 1,751.20              | 20.62                   | 85.915            |                    |         |
| 3,100.00                     | 3,093.26            | 3,187.41            | 3,186.99            | 10.90           | 10.45       | -165.68               | -1,680.25                         | -67.04     | 1,785.16             | 1,763.82              | 21.34                   | 83.652            |                    |         |
| 3,195.07                     | 3,186.42            | 3,283.50            | 3,282.99            | 11.24           | 10.79       | -165.78               | -1,675.99                         | -67.37     | 1,799.36             | 1,777.34              | 22.02                   | 81.714            |                    |         |
| 3,200.00                     | 3,191.25            | 3,288.52            | 3,288.00            | 11.26           | 10.81       | -165.79               | -1,675.76                         | -67.39     | 1,800.13             | 1,778.08              | 22.06                   | 81.616            |                    |         |
| 3,300.00                     | 3,289.08            | 3,380.02            | 3,379.42            | 11.62           | 11.13       | -165.93               | -1,671.77                         | -67.66     | 1,815.96             | 1,793.22              | 22.74                   | 79.857            |                    |         |
| 3,400.00                     | 3,386.91            | 3,608.43            | 3,607.07            | 11.98           | 11.94       | -166.16               | -1,654.52                         | -71.51     | 1,828.82             | 1,804.99              | 23.84                   | 76.727            |                    |         |
| 3,500.00                     | 3,484.74            | 3,885.67            | 3,880.87            | 12.35           | 12.94       | -166.38               | -1,612.09                         | -77.32     | 1,835.04             | 1,810.11              | 24.92                   | 73.627            |                    |         |
| 3,600.00                     | 3,582.58            | 4,000.18            | 3,992.71            | 12.72           | 13.37       | -166.39               | -1,588.07                         | -82.42     | 1,834.27             | 1,808.60              | 25.67                   | 71.460            |                    |         |
| 3,700.00                     | 3,680.41            | 4,092.27            | 4,082.46            | 13.09           | 13.72       | -166.36               | -1,568.09                         | -87.46     | 1,832.77             | 1,806.39              | 26.38                   | 69.467            |                    |         |
| 3,760.57                     | 3,739.67            | 4,134.69            | 4,123.89            | 13.31           | 13.88       | -166.35               | -1,559.32                         | -89.90     | 1,832.47             | 1,805.68              | 26.80                   | 68.386            |                    |         |
| 3,800.00                     | 3,778.24            | 4,171.63            | 4,160.03            | 13.46           | 14.02       | -166.33               | -1,551.94                         | -92.03     | 1,832.56             | 1,805.48              | 27.08                   | 67.673            |                    |         |
| 3,900.00                     | 3,876.08            | 4,295.98            | 4,281.48            | 13.83           | 14.51       | -166.32               | -1,525.95                         | -98.00     | 1,831.80             | 1,803.94              | 27.85                   | 65.770            |                    |         |
| 4,000.00                     | 3,973.91            | 4,386.44            | 4,369.78            | 14.21           | 14.86       | -166.33               | -1,506.69                         | -101.87    | 1,830.68             | 1,802.11              | 28.57                   | 64.073            |                    |         |
| 4,100.00                     | 4,071.74            | 4,481.88            | 4,463.12            | 14.58           | 15.24       | -166.34               | -1,487.21                         | -106.05    | 1,830.45             | 1,801.15              | 29.30                   | 62.469            |                    |         |
| 4,200.00                     | 4,169.57            | 4,597.27            | 4,575.83            | 14.96           | 15.70       | -166.38               | -1,462.79                         | -110.01    | 1,829.43             | 1,799.36              | 30.07                   | 60.847            |                    |         |
| 4,300.00                     | 4,267.41            | 4,686.91            | 4,663.38            | 15.33           | 16.06       | -166.43               | -1,443.73                         | -112.45    | 1,828.32             | 1,797.53              | 30.79                   | 59.379            |                    |         |
| 4,382.52                     | 4,348.13            | 4,756.69            | 4,731.66            | 15.64           | 16.34       | -166.47               | -1,429.43                         | -114.33    | 1,828.05             | 1,796.67              | 31.38                   | 58.252            |                    |         |
| 4,400.00                     | 4,365.24            | 4,771.80            | 4,746.45            | 15.71           | 16.40       | -166.48               | -1,426.39                         | -114.76    | 1,828.06             | 1,796.55              | 31.51                   | 58.020            |                    |         |
| 4,500.00                     | 4,463.07            | 4,882.93            | 4,855.29            | 16.09           | 16.85       | -166.54               | -1,404.15                         | -117.86    | 1,828.26             | 1,795.99              | 32.27                   | 56.654            |                    |         |
| 4,600.00                     | 4,560.90            | 4,981.72            | 4,951.90            | 16.47           | 17.25       | -166.64               | -1,383.54                         | -119.17    | 1,827.55             | 1,794.54              | 33.01                   | 55.357            |                    |         |
| 4,643.91                     | 4,603.86            | 5,018.19            | 4,987.60            | 16.63           | 17.40       | -166.68               | -1,376.10                         | -119.47    | 1,827.45             | 1,794.12              | 33.33                   | 54.832            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 431-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 4,700.00                     | 4,658.74            | 5,059.66            | 5,028.25            | 16.85           | 17.56       | -166.73               | -1,367.90                         | -119.86    | 1,827.68             | 1,793.96              | 33.72                   | 54.202            |                    |         |
| 4,800.00                     | 4,756.57            | 5,137.21            | 5,104.41            | 17.23           | 17.88       | -166.81               | -1,353.39                         | -120.89    | 1,829.15             | 1,794.73              | 34.42                   | 53.141            |                    |         |
| 4,900.00                     | 4,854.40            | 5,222.94            | 5,188.78            | 17.61           | 18.22       | -166.89               | -1,338.18                         | -122.17    | 1,831.63             | 1,796.49              | 35.14                   | 52.130            |                    |         |
| 5,000.00                     | 4,952.23            | 5,321.16            | 5,285.50            | 17.99           | 18.62       | -166.97               | -1,321.21                         | -124.13    | 1,834.59             | 1,798.71              | 35.88                   | 51.132            |                    |         |
| 5,100.00                     | 5,050.07            | 5,419.39            | 5,382.19            | 18.37           | 19.01       | -167.06               | -1,303.96                         | -125.88    | 1,837.27             | 1,800.64              | 36.62                   | 50.167            |                    |         |
| 5,200.00                     | 5,147.90            | 5,495.55            | 5,457.29            | 18.75           | 19.32       | -167.13               | -1,291.39                         | -127.18    | 1,840.99             | 1,803.68              | 37.31                   | 49.338            |                    |         |
| 5,300.00                     | 5,245.73            | 5,627.90            | 5,587.87            | 19.14           | 19.85       | -167.29               | -1,269.80                         | -127.97    | 1,845.12             | 1,806.98              | 38.14                   | 48.379            |                    |         |
| 5,400.00                     | 5,343.56            | 5,743.00            | 5,700.91            | 19.52           | 20.32       | -167.49               | -1,248.19                         | -126.92    | 1,846.48             | 1,807.55              | 38.92                   | 47.441            |                    |         |
| 5,500.00                     | 5,441.40            | 5,846.52            | 5,802.66            | 19.90           | 20.75       | -167.65               | -1,229.14                         | -126.58    | 1,848.34             | 1,808.66              | 39.68                   | 46.582            |                    |         |
| 5,600.00                     | 5,539.23            | 5,977.09            | 5,930.65            | 20.29           | 21.29       | -167.78               | -1,203.41                         | -128.25    | 1,848.81             | 1,808.31              | 40.49                   | 45.658            |                    |         |
| 5,605.50                     | 5,544.61            | 5,980.79            | 5,934.27            | 20.31           | 21.30       | -167.78               | -1,202.66                         | -128.36    | 1,848.80             | 1,808.27              | 40.53                   | 45.614            |                    |         |
| 5,700.00                     | 5,637.06            | 6,044.42            | 5,996.66            | 20.67           | 21.57       | -167.81               | -1,190.32                         | -130.51    | 1,849.59             | 1,808.41              | 41.18                   | 44.912            |                    |         |
| 5,800.00                     | 5,734.90            | 6,143.00            | 6,093.47            | 21.05           | 21.98       | -167.82               | -1,172.23                         | -134.70    | 1,851.47             | 1,809.54              | 41.93                   | 44.152            |                    |         |
| 5,900.00                     | 5,832.73            | 6,283.81            | 6,231.43            | 21.44           | 22.57       | -167.83               | -1,144.72                         | -140.72    | 1,852.17             | 1,809.39              | 42.77                   | 43.303            |                    |         |
| 6,000.00                     | 5,930.56            | 6,396.04            | 6,340.97            | 21.83           | 23.05       | -167.82               | -1,120.90                         | -146.17    | 1,851.07             | 1,807.52              | 43.55                   | 42.501            |                    |         |
| 6,100.00                     | 6,028.39            | 6,497.45            | 6,439.95            | 22.21           | 23.49       | -167.82               | -1,099.38                         | -151.00    | 1,850.02             | 1,805.71              | 44.32                   | 41.746            |                    |         |
| 6,189.33                     | 6,115.78            | 6,564.67            | 6,505.60            | 22.56           | 23.77       | -167.84               | -1,085.15                         | -153.40    | 1,849.23             | 1,804.27              | 44.95                   | 41.135            |                    |         |
| 6,200.00                     | 6,126.23            | 6,570.64            | 6,511.44            | 22.60           | 23.80       | -167.84               | -1,083.95                         | -153.59    | 1,849.24             | 1,804.21              | 45.03                   | 41.070            |                    |         |
| 6,300.00                     | 6,224.06            | 6,628.00            | 6,567.76            | 22.98           | 24.04       | -167.87               | -1,073.18                         | -155.19    | 1,850.69             | 1,805.00              | 45.69                   | 40.503            |                    |         |
| 6,400.00                     | 6,321.89            | 6,710.03            | 6,648.56            | 23.37           | 24.38       | -167.95               | -1,059.10                         | -156.51    | 1,853.79             | 1,807.39              | 46.40                   | 39.950            |                    |         |
| 6,500.00                     | 6,419.72            | 6,860.18            | 6,796.31            | 23.76           | 25.00       | -168.14               | -1,032.40                         | -157.09    | 1,856.48             | 1,809.21              | 47.27                   | 39.270            |                    |         |
| 6,572.22                     | 6,490.38            | 6,947.79            | 6,882.08            | 24.03           | 25.38       | -168.24               | -1,014.55                         | -157.83    | 1,856.32             | 1,808.47              | 47.85                   | 38.793            |                    |         |
| 6,600.00                     | 6,517.56            | 6,967.58            | 6,901.47            | 24.14           | 25.46       | -168.26               | -1,010.59                         | -157.95    | 1,856.38             | 1,808.34              | 48.05                   | 38.636            |                    |         |
| 6,700.00                     | 6,615.39            | 7,049.07            | 6,981.45            | 24.53           | 25.80       | -168.37               | -994.97                           | -158.28    | 1,857.49             | 1,808.72              | 48.77                   | 38.089            |                    |         |
| 6,800.00                     | 6,713.22            | 7,162.24            | 7,092.55            | 24.92           | 26.28       | -168.48               | -973.50                           | -159.77    | 1,858.83             | 1,809.27              | 49.55                   | 37.511            |                    |         |
| 6,900.00                     | 6,811.05            | 7,265.96            | 7,194.19            | 25.30           | 26.72       | -168.57               | -952.88                           | -161.53    | 1,859.21             | 1,808.89              | 50.32                   | 36.947            |                    |         |
| 7,000.00                     | 6,908.89            | 7,334.05            | 7,261.00            | 25.69           | 27.01       | -168.64               | -939.80                           | -162.58    | 1,860.40             | 1,809.39              | 51.01                   | 36.471            |                    |         |
| 7,100.00                     | 7,006.72            | 7,391.00            | 7,317.13            | 26.08           | 27.25       | -168.70               | -930.18                           | -163.25    | 1,863.82             | 1,812.17              | 51.65                   | 36.083            |                    |         |
| 7,200.00                     | 7,104.55            | 7,504.43            | 7,429.02            | 26.47           | 27.71       | -168.82               | -911.57                           | -164.45    | 1,867.75             | 1,815.30              | 52.45                   | 35.612            |                    |         |
| 7,216.87                     | 7,121.05            | 7,515.89            | 7,440.32            | 26.53           | 27.76       | -168.83               | -909.70                           | -164.58    | 1,868.42             | 1,815.86              | 52.56                   | 35.548            |                    |         |
| 7,300.00                     | 7,202.57            | 7,572.38            | 7,496.12            | 26.85           | 27.99       | -168.89               | -900.92                           | -165.29    | 1,871.56             | 1,818.45              | 53.11                   | 35.240            |                    |         |
| 7,400.00                     | 7,301.06            | 7,627.10            | 7,550.31            | 27.23           | 28.21       | -168.93               | -893.41                           | -166.16    | 1,874.84             | 1,821.14              | 53.70                   | 34.912            |                    |         |
| 7,500.00                     | 7,399.97            | 7,681.20            | 7,604.07            | 27.61           | 28.42       | -168.96               | -887.40                           | -167.32    | 1,878.09             | 1,823.83              | 54.26                   | 34.610            |                    |         |
| 7,600.00                     | 7,499.23            | 7,792.27            | 7,714.50            | 27.98           | 28.84       | -169.01               | -875.70                           | -168.90    | 1,879.38             | 1,824.33              | 55.04                   | 34.144            |                    |         |
| 7,700.00                     | 7,598.77            | 7,868.00            | 7,789.86            | 28.34           | 29.13       | -169.06               | -868.21                           | -168.55    | 1,878.80             | 1,823.13              | 55.67                   | 33.750            |                    |         |
| 7,800.00                     | 7,698.53            | 7,927.74            | 7,849.38            | 28.70           | 29.35       | -169.13               | -863.29                           | -167.32    | 1,877.36             | 1,821.16              | 56.20                   | 33.404            |                    |         |
| 7,900.00                     | 7,798.44            | 7,999.44            | 7,920.90            | 29.05           | 29.60       | -169.21               | -858.73                           | -165.12    | 1,875.24             | 1,818.47              | 56.77                   | 33.032            |                    |         |
| 8,000.00                     | 7,898.42            | 8,090.17            | 8,011.49            | 29.39           | 29.93       | -169.22               | -853.89                           | -164.75    | 1,871.55             | 1,814.12              | 57.43                   | 32.591            |                    |         |
| 8,013.58                     | 7,912.00            | 8,104.80            | 8,026.10            | 29.43           | 29.98       | 178.00                | -853.13                           | -164.88    | 1,870.86             | 1,813.34              | 57.53                   | 32.522            |                    |         |
| 8,100.00                     | 7,998.42            | 8,184.31            | 8,105.50            | 29.73           | 30.26       | 178.03                | -848.95                           | -165.98    | 1,866.30             | 1,808.20              | 58.09                   | 32.126            |                    |         |
| 8,200.00                     | 8,098.42            | 8,262.08            | 8,183.20            | 30.07           | 30.53       | 178.06                | -845.70                           | -166.86    | 1,862.06             | 1,803.39              | 58.67                   | 31.737            |                    |         |
| 8,300.00                     | 8,198.42            | 8,361.44            | 8,282.48            | 30.41           | 30.87       | 178.08                | -842.05                           | -167.89    | 1,858.35             | 1,798.99              | 59.36                   | 31.305            |                    |         |
| 8,363.62                     | 8,262.04            | 8,424.07            | 8,344.99            | 30.62           | 31.09       | 177.99                | -839.65                           | -164.92    | 1,856.02             | 1,796.22              | 59.80                   | 31.038            |                    |         |
| 8,400.00                     | 8,298.40            | 8,467.80            | 8,388.38            | 30.75           | 31.23       | 88.36                 | -837.84                           | -159.95    | 1,854.63             | 1,794.55              | 60.08                   | 30.868            |                    |         |
| 8,450.00                     | 8,348.10            | 8,513.78            | 8,433.18            | 30.91           | 31.38       | 88.41                 | -835.63                           | -149.97    | 1,852.44             | 1,792.05              | 60.39                   | 30.675            |                    |         |
| 8,500.00                     | 8,397.14            | 8,552.66            | 8,470.03            | 31.07           | 31.50       | 88.46                 | -833.88                           | -137.74    | 1,850.43             | 1,789.78              | 60.65                   | 30.508            |                    |         |
| 8,550.00                     | 8,445.15            | 8,590.82            | 8,505.03            | 31.23           | 31.61       | 88.49                 | -832.26                           | -122.65    | 1,848.59             | 1,787.68              | 60.91                   | 30.350            |                    |         |
| 8,600.00                     | 8,491.77            | 8,621.36            | 8,531.99            | 31.38           | 31.69       | 88.53                 | -831.17                           | -108.36    | 1,847.09             | 1,785.97              | 61.12                   | 30.221            |                    |         |
| 8,650.00                     | 8,536.65            | 8,644.92            | 8,552.04            | 31.52           | 31.75       | 88.56                 | -830.55                           | -96.01     | 1,846.07             | 1,784.79              | 61.28                   | 30.123            |                    |         |
| 8,700.00                     | 8,579.43            | 8,677.00            | 8,578.17            | 31.66           | 31.83       | 88.53                 | -830.29                           | -77.42     | 1,845.81             | 1,784.32              | 61.49                   | 30.017            |                    |         |
| 8,712.37                     | 8,589.66            | 8,677.00            | 8,578.17            | 31.70           | 31.83       | 88.54                 | -830.29                           | -77.42     | 1,845.77             | 1,784.27              | 61.50                   | 30.013            |                    |         |
| 8,750.00                     | 8,619.80            | 8,688.73            | 8,587.40            | 31.80           | 31.85       | 88.50                 | -830.36                           | -70.17     | 1,846.05             | 1,784.47              | 61.59                   | 29.975            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               |                      | Offset Site Error: | 0.00 ft |
|------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|---------|
| Survey Program: 431-MWD+HDGM |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               |                      | Offset Well Error: | 0.50 ft |
| Reference                    |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                      |                    | Warning |
| Measured Depth<br>(ft)       | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor |                    |         |
| 8,800.00                     | 8,657.44               | 8,714.25               | 8,606.94               | 31.93             | 31.90          | 88.43                       | -830.73                                 | -53.77        | 1,846.94                   | 1,785.18                    | 61.76                         | 29.904               |                    |         |
| 8,850.00                     | 8,692.08               | 8,772.66               | 8,648.60               | 32.06             | 32.00          | 88.39                       | -831.88                                 | -12.90        | 1,848.12                   | 1,785.96                    | 62.16                         | 29.732               |                    |         |
| 8,900.00                     | 8,723.44               | 8,882.37               | 8,716.38               | 32.19             | 32.16          | 88.35                       | -830.98                                 | 73.26         | 1,847.83                   | 1,784.88                    | 62.95                         | 29.355               |                    |         |
| 8,950.00                     | 8,751.29               | 8,922.05               | 8,738.13               | 32.34             | 32.22          | 88.42                       | -830.13                                 | 106.44        | 1,847.02                   | 1,783.69                    | 63.32                         | 29.169               |                    |         |
| 9,000.00                     | 8,775.42               | 8,986.01               | 8,769.14               | 32.50             | 32.33          | 88.53                       | -828.48                                 | 162.33        | 1,845.99                   | 1,782.04                    | 63.95                         | 28.868               |                    |         |
| 9,050.00                     | 8,795.64               | 9,050.00               | 8,797.12               | 32.67             | 32.54          | 88.72                       | -826.01                                 | 222.54        | 1,844.35                   | 1,779.69                    | 64.66                         | 28.525               |                    |         |
| 9,100.00                     | 8,811.80               | 9,103.70               | 8,816.53               | 32.87             | 32.87          | 89.00                       | -823.73                                 | 269.89        | 1,842.34                   | 1,776.98                    | 65.35                         | 28.191               |                    |         |
| 9,150.00                     | 8,823.77               | 9,143.40               | 8,829.42               | 33.10             | 33.20          | 89.29                       | -822.11                                 | 307.41        | 1,840.51                   | 1,774.53                    | 65.97                         | 27.897               |                    |         |
| 9,200.00                     | 8,831.47               | 9,185.44               | 8,840.90               | 33.34             | 33.61          | 89.61                       | -820.57                                 | 347.81        | 1,838.89                   | 1,772.21                    | 66.68                         | 27.579               |                    |         |
| 9,250.00                     | 8,834.84               | 9,243.45               | 8,853.83               | 33.60             | 34.24          | 90.06                       | -818.46                                 | 404.32        | 1,837.33                   | 1,769.70                    | 67.64                         | 27.165               |                    |         |
| 9,263.62                     | 8,835.00               | 9,259.66               | 8,857.05               | 33.67             | 34.43          | 90.20                       | -817.79                                 | 420.19        | 1,836.84                   | 1,768.93                    | 67.92                         | 27.046               |                    |         |
| 9,300.00                     | 8,835.00               | 9,316.09               | 8,866.57               | 33.88             | 35.13          | 90.50                       | -815.25                                 | 475.75        | 1,835.48                   | 1,766.60                    | 68.88                         | 26.648               |                    |         |
| 9,400.00                     | 8,835.00               | 9,464.13               | 8,881.12               | 34.53             | 37.24          | 90.96                       | -804.39                                 | 622.64        | 1,828.50                   | 1,756.78                    | 71.72                         | 25.494               |                    |         |
| 9,500.00                     | 8,835.00               | 9,542.56               | 8,886.55               | 35.30             | 38.49          | 91.14                       | -798.49                                 | 700.66        | 1,821.71                   | 1,747.95                    | 73.76                         | 24.697               |                    |         |
| 9,600.00                     | 8,835.00               | 9,619.52               | 8,890.89               | 36.17             | 39.79          | 91.28                       | -793.83                                 | 777.36        | 1,816.35                   | 1,740.40                    | 75.95                         | 23.916               |                    |         |
| 9,700.00                     | 8,835.00               | 9,695.63               | 8,893.97               | 37.13             | 41.15          | 91.38                       | -790.03                                 | 853.31        | 1,812.08                   | 1,733.81                    | 78.26                         | 23.153               |                    |         |
| 9,800.00                     | 8,835.00               | 9,756.49               | 8,895.34               | 38.18             | 42.28          | 91.42                       | -788.17                                 | 914.12        | 1,809.67                   | 1,729.25                    | 80.42                         | 22.504               |                    |         |
| 9,900.00                     | 8,835.00               | 9,840.09               | 8,896.17               | 39.31             | 43.91          | 91.45                       | -787.09                                 | 997.71        | 1,808.96                   | 1,725.81                    | 83.15                         | 21.755               |                    |         |
| 10,000.00                    | 8,835.00               | 9,938.78               | 8,897.33               | 40.51             | 45.90          | 91.48                       | -786.15                                 | 1,096.39      | 1,808.63                   | 1,722.28                    | 86.36                         | 20.944               |                    |         |
| 10,067.49                    | 8,835.00               | 9,999.98               | 8,898.31               | 41.36             | 47.18          | 91.51                       | -785.60                                 | 1,157.58      | 1,808.47                   | 1,719.98                    | 88.49                         | 20.437               |                    |         |
| 10,100.00                    | 8,835.00               | 10,027.53              | 8,898.59               | 41.78             | 47.77          | 91.52                       | -785.47                                 | 1,185.13      | 1,808.51                   | 1,719.03                    | 89.48                         | 20.211               |                    |         |
| 10,200.00                    | 8,835.00               | 10,158.81              | 8,898.97               | 43.10             | 50.63          | 91.54                       | -784.38                                 | 1,316.40      | 1,808.40                   | 1,714.67                    | 93.73                         | 19.294               |                    |         |
| 10,300.00                    | 8,835.00               | 10,273.05              | 8,899.33               | 44.49             | 53.22          | 91.55                       | -781.66                                 | 1,430.61      | 1,806.64                   | 1,708.91                    | 97.73                         | 18.486               |                    |         |
| 10,400.00                    | 8,835.00               | 10,385.08              | 8,900.19               | 45.92             | 55.82          | 91.58                       | -777.88                                 | 1,542.57      | 1,803.86                   | 1,702.07                    | 101.79                        | 17.721               |                    |         |
| 10,500.00                    | 8,835.00               | 10,477.79              | 8,902.36               | 47.39             | 58.03          | 91.65                       | -774.72                                 | 1,635.20      | 1,801.11                   | 1,695.65                    | 105.47                        | 17.078               |                    |         |
| 10,600.00                    | 8,835.00               | 10,572.24              | 8,904.21               | 48.91             | 60.31          | 91.71                       | -771.96                                 | 1,729.59      | 1,798.84                   | 1,689.58                    | 109.26                        | 16.463               |                    |         |
| 10,700.00                    | 8,835.00               | 10,680.78              | 8,908.41               | 50.47             | 62.97          | 91.85                       | -768.63                                 | 1,838.00      | 1,796.50                   | 1,683.00                    | 113.51                        | 15.827               |                    |         |
| 10,800.00                    | 8,835.00               | 10,789.19              | 8,913.27               | 52.06             | 65.67          | 92.01                       | -764.59                                 | 1,946.23      | 1,793.51                   | 1,675.70                    | 117.81                        | 15.223               |                    |         |
| 10,900.00                    | 8,835.00               | 10,897.25              | 8,917.56               | 53.68             | 68.39          | 92.15                       | -760.20                                 | 2,054.11      | 1,790.19                   | 1,668.02                    | 122.17                        | 14.653               |                    |         |
| 11,000.00                    | 8,835.00               | 10,988.65              | 8,920.27               | 55.32             | 70.71          | 92.24                       | -756.41                                 | 2,145.38      | 1,786.76                   | 1,660.62                    | 126.14                        | 14.165               |                    |         |
| 11,100.00                    | 8,835.00               | 11,078.22              | 8,922.83               | 57.00             | 73.01          | 92.32                       | -753.27                                 | 2,234.87      | 1,783.96                   | 1,653.86                    | 130.10                        | 13.713               |                    |         |
| 11,200.00                    | 8,835.00               | 11,147.07              | 8,925.31               | 58.70             | 74.79          | 92.41                       | -751.44                                 | 2,303.65      | 1,782.13                   | 1,648.62                    | 133.51                        | 13.348               |                    |         |
| 11,233.78                    | 8,835.00               | 11,167.13              | 8,925.95               | 59.28             | 75.31          | 92.43                       | -751.22                                 | 2,323.69      | 1,782.00                   | 1,647.43                    | 134.57                        | 13.242               |                    |         |
| 11,300.00                    | 8,835.00               | 11,210.10              | 8,927.14               | 60.41             | 76.42          | 92.46                       | -751.25                                 | 2,366.65      | 1,782.49                   | 1,645.74                    | 136.75                        | 13.035               |                    |         |
| 11,400.00                    | 8,835.00               | 11,314.60              | 8,930.47               | 62.15             | 79.15          | 92.57                       | -751.85                                 | 2,471.09      | 1,783.81                   | 1,642.57                    | 141.24                        | 12.630               |                    |         |
| 11,500.00                    | 8,835.00               | 11,418.19              | 8,935.08               | 63.91             | 81.88          | 92.72                       | -751.43                                 | 2,574.58      | 1,784.19                   | 1,638.45                    | 145.74                        | 12.243               |                    |         |
| 11,600.00                    | 8,835.00               | 11,486.00              | 8,937.44               | 65.69             | 83.67          | 92.79                       | -752.40                                 | 2,642.34      | 1,786.23                   | 1,637.07                    | 149.16                        | 11.975               |                    |         |
| 11,700.00                    | 8,835.00               | 11,586.79              | 8,939.35               | 67.47             | 86.34          | 92.85                       | -754.79                                 | 2,743.08      | 1,789.29                   | 1,635.66                    | 153.63                        | 11.646               |                    |         |
| 11,800.00                    | 8,835.00               | 11,676.29              | 8,939.84               | 69.28             | 88.72          | 92.86                       | -756.87                                 | 2,832.55      | 1,792.24                   | 1,634.47                    | 157.77                        | 11.360               |                    |         |
| 11,900.00                    | 8,835.00               | 11,818.72              | 8,940.02               | 71.09             | 92.54          | 92.86                       | -758.98                                 | 2,974.96      | 1,794.35                   | 1,630.75                    | 163.60                        | 10.968               |                    |         |
| 12,000.00                    | 8,835.00               | 11,971.04              | 8,937.59               | 72.92             | 96.64          | 92.78                       | -757.25                                 | 3,127.25      | 1,793.72                   | 1,624.07                    | 169.66                        | 10.573               |                    |         |
| 12,100.00                    | 8,835.00               | 12,051.10              | 8,936.10               | 74.76             | 98.80          | 92.74                       | -755.74                                 | 3,207.28      | 1,792.32                   | 1,618.70                    | 173.62                        | 10.323               |                    |         |
| 12,200.00                    | 8,835.00               | 12,141.04              | 8,935.05               | 76.61             | 101.24         | 92.71                       | -754.65                                 | 3,297.20      | 1,791.65                   | 1,613.76                    | 177.88                        | 10.072               |                    |         |
| 12,300.00                    | 8,835.00               | 12,245.23              | 8,933.44               | 78.47             | 104.07         | 92.65                       | -753.61                                 | 3,401.37      | 1,791.18                   | 1,608.59                    | 182.58                        | 9.810                |                    |         |
| 12,400.00                    | 8,835.00               | 12,366.73              | 8,932.52               | 80.34             | 107.39         | 92.63                       | -751.22                                 | 3,522.85      | 1,789.73                   | 1,601.92                    | 187.81                        | 9.530                |                    |         |
| 12,500.00                    | 8,835.00               | 12,456.10              | 8,933.51               | 82.22             | 109.83         | 92.66                       | -749.21                                 | 3,612.19      | 1,788.15                   | 1,596.04                    | 192.10                        | 9.308                |                    |         |
| 12,600.00                    | 8,835.00               | 12,539.02              | 8,935.53               | 84.11             | 112.10         | 92.73                       | -748.00                                 | 3,695.07      | 1,787.39                   | 1,591.18                    | 196.21                        | 9.109                |                    |         |
| 12,651.16                    | 8,835.00               | 12,585.03              | 8,936.77               | 85.08             | 113.37         | 92.77                       | -747.60                                 | 3,741.06      | 1,787.32                   | 1,588.89                    | 198.43                        | 9.007                |                    |         |
| 12,700.00                    | 8,835.00               | 12,629.08              | 8,937.79               | 86.00             | 114.58         | 92.80                       | -747.35                                 | 3,785.10      | 1,787.39                   | 1,586.84                    | 200.54                        | 8.913                |                    |         |
| 12,800.00                    | 8,835.00               | 12,724.75              | 8,939.90               | 87.90             | 117.21         | 92.87                       | -747.08                                 | 3,880.74      | 1,787.81                   | 1,582.75                    | 205.06                        | 8.719                |                    |         |
| 12,900.00                    | 8,835.00               | 12,859.84              | 8,944.34               | 89.81             | 120.93         | 93.01                       | -745.02                                 | 4,015.74      | 1,786.94                   | 1,576.17                    | 210.77                        | 8.478                |                    |         |
| 13,000.00                    | 8,835.00               | 12,970.44              | 8,949.41               | 91.72             | 123.99         | 93.18                       | -742.30                                 | 4,126.19      | 1,785.33                   | 1,569.60                    | 215.74                        | 8.275                |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 431-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 13,100.00                    | 8,835.00            | 13,068.80           | 8,953.78            | 93.64           | 126.71      | 93.32                 | -739.32                           | 4,224.41   | 1,783.16             | 1,562.81              | 220.36                  | 8.092             |                    |         |
| 13,200.00                    | 8,835.00            | 13,154.50           | 8,956.15            | 95.56           | 129.08      | 93.40                 | -737.32                           | 4,310.05   | 1,781.59             | 1,556.98              | 224.61                  | 7.932             |                    |         |
| 13,300.00                    | 8,835.00            | 13,255.74           | 8,956.61            | 97.49           | 131.89      | 93.42                 | -735.76                           | 4,411.28   | 1,780.68             | 1,551.34              | 229.34                  | 7.764             |                    |         |
| 13,400.00                    | 8,835.00            | 13,364.48           | 8,956.16            | 99.42           | 134.90      | 93.41                 | -733.46                           | 4,519.99   | 1,779.13             | 1,544.83              | 234.30                  | 7.593             |                    |         |
| 13,500.00                    | 8,835.00            | 13,459.45           | 8,956.37            | 101.36          | 137.54      | 93.41                 | -731.35                           | 4,614.93   | 1,777.52             | 1,538.66              | 238.87                  | 7.442             |                    |         |
| 13,600.00                    | 8,835.00            | 13,557.93           | 8,958.74            | 103.30          | 140.29      | 93.49                 | -729.31                           | 4,713.36   | 1,776.20             | 1,532.67              | 243.53                  | 7.294             |                    |         |
| 13,700.00                    | 8,835.00            | 13,651.69           | 8,960.97            | 105.25          | 142.90      | 93.57                 | -727.50                           | 4,807.08   | 1,775.01             | 1,526.95              | 248.06                  | 7.156             |                    |         |
| 13,800.00                    | 8,835.00            | 13,758.46           | 8,963.57            | 107.20          | 145.88      | 93.65                 | -725.55                           | 4,913.80   | 1,773.95             | 1,520.97              | 252.98                  | 7.012             |                    |         |
| 13,900.00                    | 8,835.00            | 13,858.68           | 8,967.31            | 109.15          | 148.67      | 93.78                 | -723.32                           | 5,013.92   | 1,772.56             | 1,514.85              | 257.71                  | 6.878             |                    |         |
| 13,992.03                    | 8,835.00            | 13,926.62           | 8,969.74            | 110.95          | 150.57      | 93.86                 | -722.25                           | 5,081.81   | 1,771.89             | 1,510.57              | 261.32                  | 6.781             |                    |         |
| 14,000.00                    | 8,835.00            | 13,932.36           | 8,969.92            | 111.10          | 150.73      | 93.86                 | -722.21                           | 5,087.54   | 1,771.89             | 1,510.27              | 261.62                  | 6.773             |                    |         |
| 14,100.00                    | 8,835.00            | 14,026.70           | 8,972.58            | 113.06          | 153.37      | 93.95                 | -721.97                           | 5,181.85   | 1,772.41             | 1,506.23              | 266.18                  | 6.659             |                    |         |
| 14,200.00                    | 8,835.00            | 14,131.20           | 8,975.26            | 115.03          | 156.30      | 94.04                 | -721.47                           | 5,286.31   | 1,772.71             | 1,501.65              | 271.06                  | 6.540             |                    |         |
| 14,300.00                    | 8,835.00            | 14,248.46           | 8,978.03            | 116.99          | 159.59      | 94.13                 | -720.31                           | 5,403.53   | 1,772.49             | 1,496.15              | 276.35                  | 6.414             |                    |         |
| 14,400.00                    | 8,835.00            | 14,352.07           | 8,980.49            | 118.96          | 162.49      | 94.21                 | -718.65                           | 5,507.10   | 1,771.67             | 1,490.47              | 281.20                  | 6.300             |                    |         |
| 14,500.00                    | 8,835.00            | 14,461.70           | 8,982.93            | 120.93          | 165.57      | 94.29                 | -716.24                           | 5,616.68   | 1,770.22             | 1,483.98              | 286.23                  | 6.184             |                    |         |
| 14,600.00                    | 8,835.00            | 14,555.01           | 8,984.93            | 122.90          | 168.19      | 94.36                 | -714.44                           | 5,709.95   | 1,769.04             | 1,478.25              | 290.79                  | 6.084             |                    |         |
| 14,700.00                    | 8,835.00            | 14,660.76           | 8,987.58            | 124.88          | 171.16      | 94.45                 | -712.01                           | 5,815.64   | 1,767.52             | 1,471.81              | 295.71                  | 5.977             |                    |         |
| 14,800.00                    | 8,835.00            | 14,739.12           | 8,989.46            | 126.86          | 173.36      | 94.51                 | -710.55                           | 5,893.96   | 1,766.49             | 1,466.68              | 299.81                  | 5.892             |                    |         |
| 14,810.39                    | 8,835.00            | 14,745.28           | 8,989.61            | 127.06          | 173.53      | 94.52                 | -710.50                           | 5,900.12   | 1,766.48             | 1,466.31              | 300.17                  | 5.885             |                    |         |
| 14,900.00                    | 8,835.00            | 14,798.37           | 8,990.97            | 128.84          | 175.03      | 94.56                 | -710.62                           | 5,953.20   | 1,767.41             | 1,464.19              | 303.22                  | 5.829             |                    |         |
| 15,000.00                    | 8,835.00            | 14,901.65           | 8,993.52            | 130.82          | 177.94      | 94.64                 | -712.20                           | 6,056.42   | 1,769.73             | 1,461.63              | 308.10                  | 5.744             |                    |         |
| 15,100.00                    | 8,835.00            | 15,008.54           | 8,995.53            | 132.80          | 180.95      | 94.70                 | -713.18                           | 6,163.29   | 1,771.40             | 1,458.28              | 313.11                  | 5.657             |                    |         |
| 15,200.00                    | 8,835.00            | 15,099.30           | 8,997.20            | 134.79          | 183.51      | 94.75                 | -714.12                           | 6,254.04   | 1,773.17             | 1,455.60              | 317.57                  | 5.584             |                    |         |
| 15,300.00                    | 8,835.00            | 15,216.64           | 9,000.03            | 136.78          | 186.82      | 94.83                 | -715.01                           | 6,371.34   | 1,774.73             | 1,451.79              | 322.94                  | 5.496             |                    |         |
| 15,400.00                    | 8,835.00            | 15,333.05           | 9,003.09            | 138.76          | 190.10      | 94.93                 | -714.62                           | 6,487.70   | 1,775.19             | 1,446.95              | 328.24                  | 5.408             |                    |         |
| 15,500.00                    | 8,835.00            | 15,445.49           | 9,006.95            | 140.76          | 193.28      | 95.06                 | -713.43                           | 6,600.07   | 1,775.04             | 1,441.65              | 333.39                  | 5.324             |                    |         |
| 15,600.00                    | 8,835.00            | 15,549.09           | 9,009.56            | 142.75          | 196.20      | 95.14                 | -711.75                           | 6,703.63   | 1,774.24             | 1,435.97              | 338.27                  | 5.245             |                    |         |
| 15,700.00                    | 8,835.00            | 15,643.05           | 9,011.77            | 144.74          | 198.85      | 95.22                 | -710.39                           | 6,797.55   | 1,773.60             | 1,430.75              | 342.86                  | 5.173             |                    |         |
| 15,800.00                    | 8,835.00            | 15,777.48           | 9,016.67            | 146.74          | 202.65      | 95.38                 | -707.47                           | 6,931.84   | 1,772.43             | 1,423.83              | 348.60                  | 5.084             |                    |         |
| 15,900.00                    | 8,835.00            | 15,874.12           | 9,021.29            | 148.73          | 205.37      | 95.54                 | -704.09                           | 7,028.30   | 1,769.99             | 1,416.75              | 353.24                  | 5.011             |                    |         |
| 16,000.00                    | 8,835.00            | 15,942.81           | 9,023.01            | 150.73          | 207.31      | 95.60                 | -702.62                           | 7,096.96   | 1,768.70             | 1,411.61              | 357.09                  | 4.953 Alert       |                    |         |
| 16,038.62                    | 8,835.00            | 15,974.17           | 9,023.31            | 151.50          | 208.20      | 95.61                 | -702.36                           | 7,128.32   | 1,768.64             | 1,409.93              | 358.71                  | 4.931 Alert       |                    |         |
| 16,100.00                    | 8,835.00            | 16,028.78           | 9,023.64            | 152.73          | 209.74      | 95.62                 | -702.10                           | 7,182.92   | 1,768.75             | 1,407.32              | 361.44                  | 4.894 Alert       |                    |         |
| 16,200.00                    | 8,835.00            | 16,115.36           | 9,023.86            | 154.73          | 212.19      | 95.62                 | -702.21                           | 7,269.50   | 1,769.50             | 1,403.71              | 365.79                  | 4.837 Alert       |                    |         |
| 16,300.00                    | 8,835.00            | 16,229.24           | 9,023.68            | 156.73          | 215.41      | 95.61                 | -702.67                           | 7,383.38   | 1,770.51             | 1,399.43              | 371.08                  | 4.771 Alert       |                    |         |
| 16,400.00                    | 8,835.00            | 16,318.56           | 9,023.09            | 158.74          | 217.94      | 95.59                 | -702.70                           | 7,472.69   | 1,771.08             | 1,395.54              | 375.55                  | 4.716 Alert       |                    |         |
| 16,500.00                    | 8,835.00            | 16,445.95           | 9,021.77            | 160.74          | 221.55      | 95.55                 | -702.41                           | 7,600.08   | 1,771.37             | 1,390.10              | 381.27                  | 4.646 Alert       |                    |         |
| 16,600.00                    | 8,835.00            | 16,548.65           | 9,020.71            | 162.74          | 224.46      | 95.52                 | -701.04                           | 7,702.76   | 1,770.53             | 1,384.34              | 386.19                  | 4.585 Alert       |                    |         |
| 16,676.35                    | 8,835.00            | 16,611.94           | 9,020.55            | 164.28          | 226.25      | 95.51                 | -700.44                           | 7,766.05   | 1,770.25             | 1,380.79              | 389.46                  | 4.545 Alert       |                    |         |
| 16,700.00                    | 8,835.00            | 16,633.29           | 9,020.63            | 164.75          | 226.86      | 95.51                 | -700.33                           | 7,787.40   | 1,770.27             | 1,379.74              | 390.53                  | 4.533 Alert       |                    |         |
| 16,800.00                    | 8,835.00            | 16,727.53           | 9,022.04            | 166.76          | 229.53      | 95.56                 | -699.94                           | 7,881.63   | 1,770.59             | 1,375.45              | 395.14                  | 4.481 Alert       |                    |         |
| 16,900.00                    | 8,835.00            | 16,829.13           | 9,024.46            | 168.77          | 232.41      | 95.64                 | -699.51                           | 7,983.19   | 1,771.00             | 1,371.02              | 399.98                  | 4.428 Alert       |                    |         |
| 17,000.00                    | 8,835.00            | 16,931.00           | 9,026.50            | 170.77          | 235.30      | 95.70                 | -699.05                           | 8,085.04   | 1,771.34             | 1,366.51              | 404.83                  | 4.376 Alert       |                    |         |
| 17,100.00                    | 8,835.00            | 17,032.76           | 9,028.36            | 172.78          | 238.19      | 95.76                 | -698.40                           | 8,186.79   | 1,771.48             | 1,361.80              | 409.68                  | 4.324 Alert       |                    |         |
| 17,200.00                    | 8,835.00            | 17,129.02           | 9,031.23            | 174.79          | 240.92      | 95.85                 | -697.83                           | 8,283.01   | 1,771.78             | 1,357.44              | 414.34                  | 4.276 Alert       |                    |         |
| 17,300.00                    | 8,835.00            | 17,228.74           | 9,034.22            | 176.81          | 243.75      | 95.95                 | -697.32                           | 8,382.68   | 1,772.18             | 1,353.08              | 419.10                  | 4.229 Alert       |                    |         |
| 17,400.00                    | 8,835.00            | 17,331.23           | 9,037.19            | 178.82          | 246.65      | 96.05                 | -696.76                           | 8,485.12   | 1,772.53             | 1,348.58              | 423.96                  | 4.181 Alert       |                    |         |
| 17,500.00                    | 8,835.00            | 17,437.49           | 9,039.92            | 180.83          | 249.67      | 96.13                 | -695.95                           | 8,591.34   | 1,772.64             | 1,343.70              | 428.93                  | 4.133 Alert       |                    |         |
| 17,600.00                    | 8,835.00            | 17,542.19           | 9,042.23            | 182.84          | 252.64      | 96.21                 | -694.81                           | 8,696.01   | 1,772.38             | 1,338.52              | 433.86                  | 4.085 Alert       |                    |         |
| 17,700.00                    | 8,835.00            | 17,656.30           | 9,044.14            | 184.86          | 255.88      | 96.28                 | -693.13                           | 8,810.09   | 1,771.70             | 1,332.63              | 439.08                  | 4.035 Alert       |                    |         |
| 17,800.00                    | 8,835.00            | 17,742.89           | 9,044.45            | 186.87          | 258.34      | 96.29                 | -691.86                           | 8,896.67   | 1,770.88             | 1,327.39              | 443.49                  | 3.993 Alert       |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                        |                        |                        |                   |                |                          |                                         |               |                         |                          | Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 335H - Wellbore #1 - Wellbore #1 |                   |           | Offset Site Error: |  | 0.00 ft |
|------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|-----------------------------------------|---------------|-------------------------|--------------------------|------------------------------------------------------------------------------------|-------------------|-----------|--------------------|--|---------|
| Survey Program: 431-MWD+HDGM |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                                                                                    |                   |           | Offset Well Error: |  | 0.50 ft |
| Reference                    |                        | Offset                 |                        | Semi Major Axis   |                |                          | Distance                                |               |                         |                          |                                                                                    |                   |           | Warning            |  |         |
| Measured Depth<br>(ft)       | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between Centres<br>(ft) | Between Ellipses<br>(ft) | Minimum Separation<br>(ft)                                                         | Separation Factor |           |                    |  |         |
| 17,846.51                    | 8,835.00               | 17,782.40              | 9,044.04               | 187.81            | 259.46         | 96.27                    | -691.59                                 | 8,936.17      | 1,770.79                | 1,325.26                 | 445.53                                                                             | 3.975             | Alert     |                    |  |         |
| 17,900.00                    | 8,835.00               | 17,827.92              | 9,043.52               | 188.89            | 260.75         | 96.26                    | -691.48                                 | 8,981.70      | 1,770.91                | 1,323.05                 | 447.86                                                                             | 3.954             | Alert     |                    |  |         |
| 18,000.00                    | 8,835.00               | 17,930.23              | 9,043.45               | 190.91            | 263.66         | 96.25                    | -691.42                                 | 9,084.00      | 1,771.44                | 1,318.67                 | 452.77                                                                             | 3.912             | Alert     |                    |  |         |
| 18,100.00                    | 8,835.00               | 18,025.63              | 9,046.07               | 192.92            | 266.37         | 96.34                    | -690.93                                 | 9,179.36      | 1,771.82                | 1,314.43                 | 457.40                                                                             | 3.874             | Alert     |                    |  |         |
| 18,200.00                    | 8,835.00               | 18,141.29              | 9,049.90               | 194.94            | 269.66         | 96.46                    | -690.10                                 | 9,294.96      | 1,772.09                | 1,309.43                 | 462.66                                                                             | 3.830             | Alert     |                    |  |         |
| 18,238.14                    | 8,835.00               | 18,174.15              | 9,050.88               | 195.71            | 270.59         | 96.49                    | -689.75                                 | 9,327.80      | 1,772.04                | 1,307.74                 | 464.31                                                                             | 3.817             | Alert     |                    |  |         |
| 18,300.00                    | 8,835.00               | 18,228.90              | 9,052.31               | 196.96            | 272.15         | 96.54                    | -689.37                                 | 9,382.53      | 1,772.17                | 1,305.14                 | 467.03                                                                             | 3.795             | Alert     |                    |  |         |
| 18,400.00                    | 8,835.00               | 18,323.96              | 9,054.35               | 198.98            | 274.85         | 96.60                    | -689.10                                 | 9,477.57      | 1,772.72                | 1,301.06                 | 471.65                                                                             | 3.759             | Alert     |                    |  |         |
| 18,500.00                    | 8,835.00               | 18,440.27              | 9,056.06               | 201.00            | 278.16         | 96.66                    | -688.49                                 | 9,593.86      | 1,772.96                | 1,295.98                 | 476.98                                                                             | 3.717             | Alert     |                    |  |         |
| 18,501.74                    | 8,835.00               | 18,442.31              | 9,056.08               | 201.03            | 278.22         | 96.66                    | -688.47                                 | 9,595.90      | 1,772.96                | 1,295.88                 | 477.08                                                                             | 3.716             | Alert     |                    |  |         |
| 18,600.00                    | 8,835.00               | 18,525.42              | 9,056.23               | 203.02            | 280.58         | 96.66                    | -688.32                                 | 9,679.01      | 1,773.35                | 1,292.02                 | 481.33                                                                             | 3.684             | Alert     |                    |  |         |
| 18,700.00                    | 8,835.00               | 18,642.30              | 9,055.39               | 205.04            | 283.91         | 96.64                    | -687.57                                 | 9,795.88      | 1,773.17                | 1,286.44                 | 486.74                                                                             | 3.643             | Alert     |                    |  |         |
| 18,741.49                    | 8,835.00               | 18,677.56              | 9,055.27               | 205.88            | 284.91         | 96.63                    | -687.31                                 | 9,831.15      | 1,773.10                | 1,284.55                 | 488.55                                                                             | 3.629             | Alert     |                    |  |         |
| 18,800.00                    | 8,835.00               | 18,735.48              | 9,055.47               | 207.06            | 286.56         | 96.64                    | -687.03                                 | 9,889.06      | 1,773.19                | 1,281.84                 | 491.36                                                                             | 3.609             | Alert     |                    |  |         |
| 18,900.00                    | 8,835.00               | 18,857.16              | 9,057.47               | 209.08            | 290.02         | 96.71                    | -685.38                                 | 10,010.71     | 1,772.63                | 1,275.82                 | 496.80                                                                             | 3.568             | Alert     |                    |  |         |
| 19,000.00                    | 8,835.00               | 18,958.15              | 9,059.05               | 211.10            | 292.89         | 96.76                    | -683.15                                 | 10,111.66     | 1,771.20                | 1,269.58                 | 501.62                                                                             | 3.531             | Alert     |                    |  |         |
| 19,100.00                    | 8,835.00               | 19,061.69              | 9,060.60               | 213.12            | 295.83         | 96.82                    | -681.10                                 | 10,215.17     | 1,770.01                | 1,263.50                 | 506.51                                                                             | 3.495             | Alert     |                    |  |         |
| 19,200.00                    | 8,835.00               | 19,164.73              | 9,062.04               | 215.15            | 298.76         | 96.87                    | -678.66                                 | 10,318.18     | 1,768.42                | 1,257.03                 | 511.39                                                                             | 3.458             | Alert     |                    |  |         |
| 19,221.83                    | 8,835.00               | 19,158.00              | 9,061.95               | 215.59            | 298.57         | 96.87                    | -678.82                                 | 10,311.45     | 1,768.30                | 1,256.71                 | 511.59                                                                             | 3.456             | Alert, ES |                    |  |         |
| 19,308.27                    | 8,835.00               | 19,158.00              | 9,061.95               | 217.34            | 298.57         | 96.87                    | -678.82                                 | 10,311.45     | 1,770.41                | 1,258.04                 | 512.37                                                                             | 3.455             | Alert, SF |                    |  |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Site Error: | 0.00 ft |
|---------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 438-MWD+HDGM, 9290-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Well Error: | 0.50 ft |
| Reference                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                    | Warning |
| Measured Depth (ft)                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor  |         |
| 0.00                                        | 0.00                | 13.82               | 13.82               | 0.50            | 0.50        | -176.46               | -1,723.38                         | -106.64    | 1,726.67             |                       |                         |                    |         |
| 100.00                                      | 100.00              | 110.43              | 110.42              | 0.52            | 0.53        | -176.46               | -1,723.51                         | -106.51    | 1,726.80             | 1,725.75              | 1.05                    | 1,642.168          |         |
| 200.00                                      | 200.00              | 207.03              | 207.03              | 0.70            | 0.61        | -176.47               | -1,723.84                         | -106.20    | 1,727.12             | 1,725.81              | 1.31                    | 1,315.798          |         |
| 300.00                                      | 300.00              | 303.64              | 303.63              | 0.99            | 0.72        | -176.49               | -1,724.37                         | -105.69    | 1,727.64             | 1,725.94              | 1.70                    | 1,013.764          |         |
| 400.00                                      | 400.00              | 400.24              | 400.23              | 1.31            | 0.84        | -176.52               | -1,725.11                         | -104.99    | 1,728.36             | 1,726.20              | 2.15                    | 803.605            |         |
| 500.00                                      | 500.00              | 496.20              | 496.18              | 1.65            | 1.07        | -176.55               | -1,726.05                         | -104.13    | 1,729.28             | 1,726.56              | 2.72                    | 635.910            |         |
| 600.00                                      | 600.00              | 595.87              | 595.84              | 1.99            | 1.40        | -176.58               | -1,727.19                         | -103.24    | 1,730.38             | 1,726.99              | 3.39                    | 510.419            |         |
| 700.00                                      | 700.00              | 693.41              | 693.37              | 2.34            | 1.73        | -176.60               | -1,728.32                         | -102.62    | 1,731.49             | 1,727.42              | 4.07                    | 425.483            |         |
| 800.00                                      | 800.00              | 792.24              | 792.19              | 2.69            | 2.07        | -176.62               | -1,729.58                         | -102.17    | 1,732.74             | 1,727.98              | 4.76                    | 363.894            |         |
| 900.00                                      | 900.00              | 894.25              | 894.19              | 3.04            | 2.43        | -176.64               | -1,730.88                         | -101.51    | 1,733.97             | 1,728.49              | 5.47                    | 316.939            |         |
| 1,000.00                                    | 1,000.00            | 989.96              | 989.88              | 3.40            | 2.77        | -176.68               | -1,732.21                         | -100.60    | 1,735.30             | 1,729.14              | 6.16                    | 281.618            |         |
| 1,100.00                                    | 1,100.00            | 1,112.58            | 1,112.50            | 3.75            | 3.19        | -176.73               | -1,733.31                         | -99.14     | 1,736.14             | 1,729.20              | 6.94                    | 250.077            |         |
| 1,200.00                                    | 1,200.00            | 1,232.14            | 1,232.04            | 4.11            | 3.59        | -176.70               | -1,732.57                         | -99.90     | 1,735.54             | 1,727.85              | 7.69                    | 225.604            |         |
| 1,300.00                                    | 1,300.00            | 1,343.65            | 1,343.52            | 4.46            | 3.95        | -176.62               | -1,730.92                         | -102.28    | 1,734.19             | 1,725.77              | 8.41                    | 206.129            |         |
| 1,400.00                                    | 1,400.00            | 1,443.47            | 1,443.28            | 4.82            | 4.29        | -176.52               | -1,729.04                         | -105.09    | 1,732.47             | 1,723.37              | 9.10                    | 190.312            |         |
| 1,500.00                                    | 1,500.00            | 1,532.13            | 1,531.89            | 5.18            | 4.59        | -176.44               | -1,727.71                         | -107.50    | 1,731.15             | 1,721.38              | 9.76                    | 177.358            |         |
| 1,600.00                                    | 1,600.00            | 1,630.29            | 1,630.02            | 5.53            | 4.92        | -176.35               | -1,726.61                         | -110.19    | 1,730.20             | 1,719.74              | 10.45                   | 165.516            |         |
| 1,700.00                                    | 1,700.00            | 1,732.81            | 1,732.49            | 5.89            | 5.27        | -176.25               | -1,725.44                         | -112.99    | 1,729.24             | 1,718.07              | 11.16                   | 154.903            |         |
| 1,800.00                                    | 1,800.00            | 1,837.77            | 1,837.40            | 6.25            | 5.64        | -176.15               | -1,723.98                         | -115.93    | 1,728.02             | 1,716.14              | 11.88                   | 145.412            |         |
| 1,900.00                                    | 1,900.00            | 1,936.31            | 1,935.89            | 6.61            | 5.98        | -176.06               | -1,722.45                         | -118.48    | 1,726.65             | 1,714.07              | 12.58                   | 137.213            |         |
| 2,000.00                                    | 2,000.00            | 2,029.15            | 2,028.70            | 6.96            | 6.30        | -175.99               | -1,721.35                         | -120.74    | 1,725.64             | 1,712.38              | 13.27                   | 130.081            |         |
| 2,044.39                                    | 2,044.39            | 2,071.95            | 2,071.49            | 7.12            | 6.45        | -163.17               | -1,720.94                         | -121.80    | 1,725.46             | 1,711.88              | 13.57                   | 127.110 CC         |         |
| 2,100.00                                    | 2,099.99            | 2,126.07            | 2,125.58            | 7.32            | 6.64        | -163.13               | -1,720.47                         | -123.20    | 1,725.74             | 1,711.78              | 13.96                   | 123.592 ES         |         |
| 2,200.00                                    | 2,199.96            | 2,225.52            | 2,224.99            | 7.68            | 6.99        | -163.06               | -1,719.66                         | -125.99    | 1,727.64             | 1,712.97              | 14.67                   | 117.761            |         |
| 2,300.00                                    | 2,299.86            | 2,327.71            | 2,327.14            | 8.04            | 7.35        | -162.99               | -1,718.74                         | -128.89    | 1,731.13             | 1,715.74              | 15.39                   | 112.495            |         |
| 2,400.00                                    | 2,399.68            | 2,431.14            | 2,430.53            | 8.39            | 7.72        | -162.94               | -1,717.66                         | -131.82    | 1,736.13             | 1,720.02              | 16.11                   | 107.760            |         |
| 2,500.00                                    | 2,499.37            | 2,533.13            | 2,532.46            | 8.75            | 8.08        | -162.89               | -1,716.36                         | -134.91    | 1,742.59             | 1,725.76              | 16.83                   | 103.543            |         |
| 2,600.00                                    | 2,598.90            | 2,629.83            | 2,629.10            | 9.11            | 8.42        | -162.86               | -1,715.14                         | -137.85    | 1,750.73             | 1,733.20              | 17.53                   | 99.869             |         |
| 2,700.00                                    | 2,698.26            | 2,725.07            | 2,724.30            | 9.46            | 8.76        | -162.84               | -1,714.19                         | -140.72    | 1,760.78             | 1,742.56              | 18.23                   | 96.609             |         |
| 2,800.00                                    | 2,797.40            | 2,829.98            | 2,829.15            | 9.82            | 9.13        | -162.84               | -1,713.11                         | -143.67    | 1,772.44             | 1,753.49              | 18.96                   | 93.502             |         |
| 2,900.00                                    | 2,896.30            | 2,928.23            | 2,927.35            | 10.18           | 9.48        | -162.84               | -1,711.94                         | -146.60    | 1,785.63             | 1,765.96              | 19.66                   | 90.808             |         |
| 3,000.00                                    | 2,994.93            | 2,999.57            | 2,998.66            | 10.54           | 9.74        | -162.84               | -1,711.72                         | -148.55    | 1,801.28             | 1,781.01              | 20.27                   | 88.854             |         |
| 3,100.00                                    | 3,093.26            | 3,083.97            | 3,083.05            | 10.90           | 10.04       | -162.88               | -1,712.49                         | -150.29    | 1,819.75             | 1,798.83              | 20.93                   | 86.962             |         |
| 3,195.07                                    | 3,186.42            | 3,173.91            | 3,172.96            | 11.24           | 10.36       | -162.93               | -1,713.70                         | -152.18    | 1,839.25             | 1,817.66              | 21.58                   | 85.216             |         |
| 3,200.00                                    | 3,191.25            | 3,178.73            | 3,177.78            | 11.26           | 10.37       | -162.94               | -1,713.77                         | -152.28    | 1,840.30             | 1,818.68              | 21.62                   | 85.126             |         |
| 3,300.00                                    | 3,289.08            | 3,264.08            | 3,263.10            | 11.62           | 10.67       | -163.06               | -1,715.16                         | -153.63    | 1,861.85             | 1,839.58              | 22.27                   | 83.604             |         |
| 3,400.00                                    | 3,386.91            | 3,346.36            | 3,345.36            | 11.98           | 10.96       | -163.23               | -1,717.31                         | -153.35    | 1,884.24             | 1,861.33              | 22.90                   | 82.264             |         |
| 3,500.00                                    | 3,484.74            | 3,475.17            | 3,474.10            | 12.35           | 11.40       | -163.53               | -1,720.83                         | -151.44    | 1,906.85             | 1,883.13              | 23.72                   | 80.395             |         |
| 3,600.00                                    | 3,582.58            | 3,594.64            | 3,593.55            | 12.72           | 11.80       | -163.79               | -1,721.68                         | -149.87    | 1,927.36             | 1,902.87              | 24.49                   | 78.687             |         |
| 3,700.00                                    | 3,680.41            | 3,685.05            | 3,683.95            | 13.09           | 12.11       | -163.99               | -1,722.15                         | -148.58    | 1,947.72             | 1,922.56              | 25.16                   | 77.406             |         |
| 3,800.00                                    | 3,778.24            | 3,780.71            | 3,779.61            | 13.46           | 12.44       | -164.19               | -1,722.80                         | -147.15    | 1,968.26             | 1,942.41              | 25.85                   | 76.133             |         |
| 3,900.00                                    | 3,876.08            | 3,876.81            | 3,875.69            | 13.83           | 12.77       | -164.39               | -1,723.54                         | -145.84    | 1,988.92             | 1,962.37              | 26.55                   | 74.924             |         |
| 4,000.00                                    | 3,973.91            | 3,975.50            | 3,974.37            | 14.21           | 13.11       | -164.58               | -1,724.28                         | -144.81    | 2,009.59             | 1,982.34              | 27.25                   | 73.742             |         |
| 4,100.00                                    | 4,071.74            | 4,073.90            | 4,072.76            | 14.58           | 13.45       | -164.77               | -1,725.02                         | -143.85    | 2,030.29             | 2,002.33              | 27.96                   | 72.619             |         |
| 4,200.00                                    | 4,169.57            | 4,175.37            | 4,174.23            | 14.96           | 13.80       | -164.95               | -1,725.52                         | -143.05    | 2,050.77             | 2,022.09              | 28.68                   | 71.510             |         |
| 4,300.00                                    | 4,267.41            | 4,265.69            | 4,264.55            | 15.33           | 14.11       | -165.11               | -1,726.16                         | -142.44    | 2,071.47             | 2,042.11              | 29.36                   | 70.566             |         |
| 4,400.00                                    | 4,365.24            | 4,363.96            | 4,362.82            | 15.71           | 14.46       | -165.26               | -1,727.01                         | -142.03    | 2,092.35             | 2,062.28              | 30.07                   | 69.591             |         |
| 4,500.00                                    | 4,463.07            | 4,465.86            | 4,464.70            | 16.09           | 14.82       | -165.42               | -1,727.68                         | -141.80    | 2,113.05             | 2,082.25              | 30.79                   | 68.618             |         |
| 4,600.00                                    | 4,560.90            | 4,563.06            | 4,561.91            | 16.47           | 15.16       | -165.57               | -1,728.30                         | -141.53    | 2,133.74             | 2,102.23              | 31.50                   | 67.729             |         |
| 4,700.00                                    | 4,658.74            | 4,660.46            | 4,659.31            | 16.85           | 15.50       | -165.70               | -1,728.89                         | -141.51    | 2,154.42             | 2,122.20              | 32.22                   | 66.874             |         |
| 4,800.00                                    | 4,756.57            | 4,756.75            | 4,755.59            | 17.23           | 15.84       | -165.84               | -1,729.56                         | -141.50    | 2,175.19             | 2,142.27              | 32.92                   | 66.066             |         |
| 4,900.00                                    | 4,854.40            | 4,856.71            | 4,855.55            | 17.61           | 16.19       | -165.97               | -1,730.23                         | -141.65    | 2,195.96             | 2,162.31              | 33.65                   | 65.260             |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|---------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 438-MWD+HDGM, 9290-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,000.00                                    | 4,952.23            | 4,946.34            | 4,945.17            | 17.99           | 16.51       | -166.08               | -1,730.78                         | -141.82    | 2,216.70             | 2,182.37              | 34.33                   | 64.569            |                    |         |
| 5,100.00                                    | 5,050.07            | 5,027.50            | 5,026.32            | 18.37           | 16.79       | -166.16               | -1,731.94                         | -142.93    | 2,238.22             | 2,203.25              | 34.98                   | 63.995            |                    |         |
| 5,200.00                                    | 5,147.90            | 5,126.70            | 5,125.49            | 18.75           | 17.14       | -166.24               | -1,733.54                         | -144.93    | 2,259.96             | 2,224.27              | 35.70                   | 63.306            |                    |         |
| 5,300.00                                    | 5,245.73            | 5,222.43            | 5,221.18            | 19.14           | 17.48       | -166.31               | -1,735.11                         | -147.02    | 2,281.74             | 2,245.33              | 36.41                   | 62.672            |                    |         |
| 5,400.00                                    | 5,343.56            | 5,317.54            | 5,316.25            | 19.52           | 17.82       | -166.37               | -1,736.75                         | -149.13    | 2,303.59             | 2,266.47              | 37.11                   | 62.067            |                    |         |
| 5,500.00                                    | 5,441.40            | 5,412.21            | 5,410.88            | 19.90           | 18.16       | -166.43               | -1,738.52                         | -151.50    | 2,325.59             | 2,287.77              | 37.82                   | 61.492            |                    |         |
| 5,600.00                                    | 5,539.23            | 5,508.86            | 5,507.44            | 20.29           | 18.50       | -166.45               | -1,740.33                         | -155.34    | 2,347.61             | 2,309.07              | 38.53                   | 60.922            |                    |         |
| 5,700.00                                    | 5,637.06            | 5,598.02            | 5,596.46            | 20.67           | 18.82       | -166.45               | -1,742.18                         | -159.86    | 2,369.83             | 2,330.62              | 39.22                   | 60.432            |                    |         |
| 5,800.00                                    | 5,734.90            | 5,684.85            | 5,683.16            | 21.05           | 19.13       | -166.45               | -1,744.39                         | -164.02    | 2,392.51             | 2,352.62              | 39.89                   | 59.985            |                    |         |
| 5,900.00                                    | 5,832.73            | 5,784.75            | 5,782.92            | 21.44           | 19.48       | -166.46               | -1,747.05                         | -168.53    | 2,415.30             | 2,374.68              | 40.62                   | 59.465            |                    |         |
| 6,000.00                                    | 5,930.56            | 5,882.76            | 5,880.81            | 21.83           | 19.83       | -166.47               | -1,749.61                         | -172.76    | 2,438.04             | 2,396.70              | 41.34                   | 58.974            |                    |         |
| 6,100.00                                    | 6,028.39            | 5,981.82            | 5,979.76            | 22.21           | 20.19       | -166.49               | -1,752.16                         | -176.69    | 2,460.75             | 2,418.68              | 42.07                   | 58.492            |                    |         |
| 6,200.00                                    | 6,126.23            | 6,089.81            | 6,087.64            | 22.60           | 20.57       | -166.52               | -1,754.75                         | -180.58    | 2,483.28             | 2,440.44              | 42.84                   | 57.964            |                    |         |
| 6,300.00                                    | 6,224.06            | 6,196.24            | 6,193.99            | 22.98           | 20.95       | -166.55               | -1,756.65                         | -184.51    | 2,505.20             | 2,461.60              | 43.61                   | 57.451            |                    |         |
| 6,400.00                                    | 6,321.89            | 6,286.22            | 6,283.90            | 23.37           | 21.27       | -166.58               | -1,758.34                         | -187.63    | 2,527.23             | 2,482.93              | 44.29                   | 57.057            |                    |         |
| 6,500.00                                    | 6,419.72            | 6,370.98            | 6,368.59            | 23.76           | 21.58       | -166.61               | -1,760.26                         | -190.48    | 2,549.62             | 2,504.67              | 44.96                   | 56.715            |                    |         |
| 6,600.00                                    | 6,517.56            | 6,454.17            | 6,451.70            | 24.14           | 21.87       | -166.64               | -1,762.66                         | -193.07    | 2,572.62             | 2,527.01              | 45.61                   | 56.406            |                    |         |
| 6,700.00                                    | 6,615.39            | 6,549.24            | 6,546.68            | 24.53           | 22.22       | -166.68               | -1,765.64                         | -195.92    | 2,595.87             | 2,549.54              | 46.32                   | 56.041            |                    |         |
| 6,800.00                                    | 6,713.22            | 6,643.03            | 6,640.36            | 24.92           | 22.55       | -166.71               | -1,768.71                         | -199.25    | 2,619.25             | 2,572.22              | 47.03                   | 55.697            |                    |         |
| 6,900.00                                    | 6,811.05            | 6,753.43            | 6,750.61            | 25.30           | 22.95       | -166.72               | -1,772.24                         | -203.89    | 2,642.58             | 2,594.77              | 47.82                   | 55.266            |                    |         |
| 7,000.00                                    | 6,908.89            | 6,878.42            | 6,875.53            | 25.69           | 23.40       | -166.78               | -1,774.93                         | -206.91    | 2,664.83             | 2,616.16              | 48.67                   | 54.749            |                    |         |
| 7,100.00                                    | 7,006.72            | 6,986.12            | 6,983.20            | 26.08           | 23.78       | -166.86               | -1,776.65                         | -208.60    | 2,686.58             | 2,637.14              | 49.45                   | 54.334            |                    |         |
| 7,200.00                                    | 7,104.55            | 7,087.18            | 7,084.25            | 26.47           | 24.14       | -166.94               | -1,777.92                         | -209.69    | 2,708.00             | 2,657.81              | 50.19                   | 53.958            |                    |         |
| 7,216.87                                    | 7,121.05            | 7,100.95            | 7,098.02            | 26.53           | 24.19       | -166.95               | -1,778.10                         | -209.75    | 2,711.62             | 2,661.33              | 50.30                   | 53.913            |                    |         |
| 7,300.00                                    | 7,202.57            | 7,228.78            | 7,225.82            | 26.85           | 24.63       | -167.18               | -1,778.31                         | -207.35    | 2,727.52             | 2,676.42              | 51.10                   | 53.379            |                    |         |
| 7,400.00                                    | 7,301.06            | 7,307.87            | 7,304.85            | 27.23           | 24.90       | -167.36               | -1,778.32                         | -204.42    | 2,744.43             | 2,692.71              | 51.72                   | 53.065            |                    |         |
| 7,500.00                                    | 7,399.97            | 7,389.51            | 7,386.46            | 27.61           | 25.18       | -167.51               | -1,778.88                         | -202.22    | 2,759.48             | 2,707.13              | 52.35                   | 52.714            |                    |         |
| 7,600.00                                    | 7,499.23            | 7,488.36            | 7,485.29            | 27.98           | 25.52       | -167.64               | -1,779.87                         | -200.50    | 2,772.31             | 2,719.26              | 53.05                   | 52.255            |                    |         |
| 7,700.00                                    | 7,598.77            | 7,588.97            | 7,585.89            | 28.34           | 25.87       | -167.74               | -1,780.87                         | -199.41    | 2,782.59             | 2,728.83              | 53.77                   | 51.754            |                    |         |
| 7,800.00                                    | 7,698.53            | 7,688.65            | 7,685.56            | 28.70           | 26.22       | -167.80               | -1,781.83                         | -199.10    | 2,790.30             | 2,735.82              | 54.47                   | 51.224            |                    |         |
| 7,900.00                                    | 7,798.44            | 7,780.76            | 7,777.66            | 29.05           | 26.54       | -167.84               | -1,782.79                         | -198.90    | 2,795.53             | 2,740.39              | 55.14                   | 50.699            |                    |         |
| 8,000.00                                    | 7,898.42            | 7,853.31            | 7,850.21            | 29.39           | 26.80       | -167.86               | -1,784.05                         | -198.65    | 2,798.90             | 2,743.20              | 55.71                   | 50.243            |                    |         |
| 8,013.58                                    | 7,912.00            | 7,864.00            | 7,860.89            | 29.43           | 26.84       | -179.36               | -1,784.30                         | -198.61    | 2,799.24             | 2,743.45              | 55.79                   | 50.177            |                    |         |
| 8,100.00                                    | 7,998.42            | 7,990.80            | 7,987.67            | 29.73           | 27.28       | -179.32               | -1,785.92                         | -196.81    | 2,800.23             | 2,743.65              | 56.58                   | 49.495            |                    |         |
| 8,200.00                                    | 8,098.42            | 8,076.80            | 8,073.64            | 30.07           | 27.57       | -179.29               | -1,787.00                         | -195.38    | 2,801.48             | 2,744.28              | 57.20                   | 48.977            |                    |         |
| 8,300.00                                    | 8,198.42            | 8,193.24            | 8,190.04            | 30.41           | 27.98       | -179.23               | -1,788.21                         | -192.43    | 2,802.55             | 2,744.59              | 57.96                   | 48.349            |                    |         |
| 8,363.62                                    | 8,262.04            | 8,256.46            | 8,253.25            | 30.62           | 28.19       | -179.21               | -1,788.65                         | -191.29    | 2,803.01             | 2,744.61              | 58.40                   | 47.995            |                    |         |
| 8,400.00                                    | 8,298.40            | 8,282.10            | 8,278.89            | 30.75           | 28.28       | -89.53                | -1,788.90                         | -191.01    | 2,803.37             | 2,744.77              | 58.60                   | 47.839            |                    |         |
| 8,450.00                                    | 8,348.10            | 8,317.16            | 8,313.94            | 30.91           | 28.41       | -89.53                | -1,789.42                         | -190.79    | 2,804.06             | 2,745.20              | 58.87                   | 47.634            |                    |         |
| 8,500.00                                    | 8,397.14            | 8,357.28            | 8,354.06            | 31.07           | 28.55       | -89.60                | -1,790.20                         | -190.75    | 2,804.98             | 2,745.82              | 59.16                   | 47.414            |                    |         |
| 8,550.00                                    | 8,445.15            | 8,403.86            | 8,400.63            | 31.23           | 28.71       | -89.76                | -1,791.17                         | -190.84    | 2,805.98             | 2,746.49              | 59.48                   | 47.173            |                    |         |
| 8,600.00                                    | 8,491.77            | 8,448.47            | 8,445.22            | 31.38           | 28.87       | -89.99                | -1,792.11                         | -191.05    | 2,807.08             | 2,747.28              | 59.80                   | 46.943            |                    |         |
| 8,650.00                                    | 8,536.65            | 8,490.40            | 8,487.15            | 31.52           | 29.02       | -90.24                | -1,793.04                         | -191.37    | 2,808.36             | 2,748.26              | 60.10                   | 46.728            |                    |         |
| 8,700.00                                    | 8,579.43            | 8,530.20            | 8,526.93            | 31.66           | 29.16       | -90.51                | -1,793.96                         | -191.81    | 2,809.92             | 2,749.52              | 60.40                   | 46.526            |                    |         |
| 8,750.00                                    | 8,619.80            | 8,565.24            | 8,561.95            | 31.80           | 29.29       | -90.74                | -1,794.82                         | -192.18    | 2,811.86             | 2,751.19              | 60.67                   | 46.346            |                    |         |
| 8,800.00                                    | 8,657.44            | 8,598.16            | 8,594.86            | 31.93           | 29.41       | -90.95                | -1,795.68                         | -192.43    | 2,814.27             | 2,753.32              | 60.94                   | 46.179            |                    |         |
| 8,850.00                                    | 8,692.08            | 8,623.00            | 8,619.69            | 32.06           | 29.50       | -91.01                | -1,796.37                         | -192.55    | 2,817.24             | 2,756.05              | 61.18                   | 46.046            |                    |         |
| 8,900.00                                    | 8,723.44            | 8,650.59            | 8,647.27            | 32.19           | 29.59       | -91.09                | -1,797.20                         | -192.67    | 2,820.86             | 2,759.41              | 61.45                   | 45.904            |                    |         |
| 8,950.00                                    | 8,751.29            | 8,670.88            | 8,667.55            | 32.34           | 29.67       | -91.99                | -1,797.87                         | -192.78    | 2,825.22             | 2,763.52              | 61.70                   | 45.792            |                    |         |
| 9,000.00                                    | 8,775.42            | 8,688.38            | 8,685.04            | 32.50           | 29.73       | -90.79                | -1,798.49                         | -192.89    | 2,830.36             | 2,768.42              | 61.95                   | 45.691            |                    |         |
| 9,050.00                                    | 8,795.64            | 8,702.95            | 8,699.60            | 32.67           | 29.78       | -90.46                | -1,799.04                         | -192.99    | 2,836.31             | 2,774.11              | 62.20                   | 45.600            |                    |         |
| 9,100.00                                    | 8,811.80            | 8,717.00            | 8,713.64            | 32.87           | 29.83       | -90.05                | -1,799.59                         | -193.10    | 2,843.08             | 2,780.60              | 62.47                   | 45.509            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|---------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 438-MWD+HDGM, 9290-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,150.00                                    | 8,823.77            | 8,717.00            | 8,713.64            | 33.10           | 29.83       | 89.28                 | -1,799.59                         | -193.10    | 2,850.66             | 2,787.97              | 62.69                   | 45.471            |                    |         |
| 9,200.00                                    | 8,831.47            | 8,727.94            | 8,724.57            | 33.34           | 29.87       | 88.65                 | -1,800.03                         | -193.19    | 2,859.02             | 2,796.03              | 62.99                   | 45.389            |                    |         |
| 9,250.00                                    | 8,834.84            | 8,730.02            | 8,726.64            | 33.60           | 29.88       | 87.77                 | -1,800.12                         | -193.20    | 2,868.12             | 2,804.86              | 63.25                   | 45.343            |                    |         |
| 9,263.62                                    | 8,835.00            | 9,936.91            | 9,297.24            | 33.67           | 36.85       | 98.99                 | -1,813.15                         | 474.66     | 2,868.81             | 2,798.49              | 70.32                   | 40.797            |                    |         |
| 9,300.00                                    | 8,835.00            | 9,979.53            | 9,298.41            | 33.88           | 37.49       | 99.02                 | -1,810.92                         | 517.20     | 2,867.30             | 2,796.14              | 71.16                   | 40.295            |                    |         |
| 9,400.00                                    | 8,835.00            | 10,069.15           | 9,301.43            | 34.53           | 38.90       | 99.09                 | -1,806.06                         | 606.64     | 2,863.08             | 2,789.85              | 73.23                   | 39.097            |                    |         |
| 9,500.00                                    | 8,835.00            | 10,126.67           | 9,303.07            | 35.30           | 39.87       | 99.13                 | -1,803.64                         | 664.09     | 2,859.96             | 2,784.99              | 74.98                   | 38.144            |                    |         |
| 9,600.00                                    | 8,835.00            | 10,201.78           | 9,304.59            | 36.17           | 41.21       | 99.17                 | -1,801.58                         | 739.15     | 2,858.13             | 2,780.95              | 77.18                   | 37.034            |                    |         |
| 9,700.00                                    | 8,835.00            | 10,274.74           | 9,306.21            | 37.13           | 42.56       | 99.20                 | -1,800.02                         | 812.08     | 2,857.00             | 2,777.52              | 79.48                   | 35.945            |                    |         |
| 9,742.29                                    | 8,835.00            | 10,301.10           | 9,307.27            | 37.57           | 43.07       | 99.22                 | -1,799.62                         | 838.41     | 2,856.88             | 2,776.46              | 80.42                   | 35.524            |                    |         |
| 9,800.00                                    | 8,835.00            | 10,338.00           | 9,309.29            | 38.18           | 43.78       | 99.27                 | -1,799.22                         | 875.26     | 2,857.10             | 2,775.38              | 81.72                   | 34.962            |                    |         |
| 9,900.00                                    | 8,835.00            | 10,430.80           | 9,315.72            | 39.31           | 45.64       | 99.39                 | -1,798.44                         | 967.83     | 2,857.99             | 2,773.32              | 84.67                   | 33.755            |                    |         |
| 10,000.00                                   | 8,835.00            | 10,553.44           | 9,324.00            | 40.51           | 48.23       | 99.56                 | -1,797.03                         | 1,090.18   | 2,858.54             | 2,770.15              | 88.39                   | 32.339            |                    |         |
| 10,100.00                                   | 8,835.00            | 10,646.72           | 9,328.01            | 41.78           | 50.27       | 99.64                 | -1,795.92                         | 1,183.37   | 2,858.69             | 2,767.04              | 91.65                   | 31.192            |                    |         |
| 10,200.00                                   | 8,835.00            | 10,719.00           | 9,329.83            | 43.10           | 51.88       | 99.67                 | -1,796.03                         | 1,255.62   | 2,859.78             | 2,765.24              | 94.54                   | 30.248            |                    |         |
| 10,300.00                                   | 8,835.00            | 10,791.67           | 9,331.28            | 44.49           | 53.55       | 99.70                 | -1,796.91                         | 1,328.27   | 2,861.84             | 2,764.30              | 97.54                   | 29.340            |                    |         |
| 10,400.00                                   | 8,835.00            | 10,919.34           | 9,334.08            | 45.92           | 56.54       | 99.75                 | -1,798.32                         | 1,455.91   | 2,863.93             | 2,762.03              | 101.91                  | 28.104            |                    |         |
| 10,500.00                                   | 8,835.00            | 11,000.15           | 9,335.85            | 47.39           | 58.47       | 99.78                 | -1,799.04                         | 1,536.69   | 2,865.75             | 2,760.49              | 105.26                  | 27.226            |                    |         |
| 10,600.00                                   | 8,835.00            | 11,142.98           | 9,339.06            | 48.91           | 61.96       | 99.84                 | -1,799.29                         | 1,679.48   | 2,866.82             | 2,756.61              | 110.20                  | 26.014            |                    |         |
| 10,700.00                                   | 8,835.00            | 11,249.31           | 9,341.79            | 50.47           | 64.59       | 99.89                 | -1,798.72                         | 1,785.78   | 2,867.32             | 2,752.99              | 114.33                  | 25.080            |                    |         |
| 10,800.00                                   | 8,835.00            | 11,348.99           | 9,344.61            | 52.06           | 67.09       | 99.95                 | -1,797.94                         | 1,885.42   | 2,867.62             | 2,749.27              | 118.35                  | 24.230            |                    |         |
| 10,900.00                                   | 8,835.00            | 11,441.53           | 9,347.13            | 53.68           | 69.44       | 100.00                | -1,797.41                         | 1,977.91   | 2,868.12             | 2,745.87              | 122.25                  | 23.462            |                    |         |
| 11,000.00                                   | 8,835.00            | 11,531.02           | 9,348.03            | 55.32           | 71.73       | 100.01                | -1,797.45                         | 2,067.40   | 2,868.92             | 2,742.79              | 126.12                  | 22.747            |                    |         |
| 11,100.00                                   | 8,835.00            | 11,618.96           | 9,348.84            | 57.00           | 74.01       | 100.02                | -1,797.86                         | 2,155.34   | 2,870.13             | 2,740.13              | 130.00                  | 22.078            |                    |         |
| 11,200.00                                   | 8,835.00            | 11,716.11           | 9,349.77            | 58.70           | 76.53       | 100.04                | -1,798.67                         | 2,252.48   | 2,871.69             | 2,737.53              | 134.16                  | 21.405            |                    |         |
| 11,300.00                                   | 8,835.00            | 11,828.50           | 9,350.92            | 60.41           | 79.48       | 100.06                | -1,799.30                         | 2,364.86   | 2,873.02             | 2,734.25              | 138.76                  | 20.704            |                    |         |
| 11,400.00                                   | 8,835.00            | 11,951.13           | 9,352.32            | 62.15           | 82.72       | 100.08                | -1,799.23                         | 2,487.48   | 2,873.75             | 2,730.08              | 143.67                  | 20.002            |                    |         |
| 11,500.00                                   | 8,835.00            | 12,055.52           | 9,354.13            | 63.91           | 85.49       | 100.12                | -1,798.51                         | 2,591.85   | 2,873.96             | 2,725.84              | 148.12                  | 19.402            |                    |         |
| 11,600.00                                   | 8,835.00            | 12,156.27           | 9,356.70            | 65.69           | 88.17       | 100.17                | -1,797.63                         | 2,692.57   | 2,874.14             | 2,721.63              | 152.50                  | 18.846            |                    |         |
| 11,700.00                                   | 8,835.00            | 12,305.09           | 9,361.26            | 67.47           | 92.16       | 100.26                | -1,795.12                         | 2,841.29   | 2,873.71             | 2,715.55              | 158.16                  | 18.170            |                    |         |
| 11,800.00                                   | 8,835.00            | 12,471.46           | 9,365.50            | 69.28           | 96.63       | 100.37                | -1,788.44                         | 3,007.47   | 2,870.67             | 2,706.43              | 164.24                  | 17.478            |                    |         |
| 11,900.00                                   | 8,835.00            | 12,557.35           | 9,367.39            | 71.09           | 98.95       | 100.42                | -1,784.15                         | 3,093.23   | 2,866.78             | 2,698.47              | 168.31                  | 17.032            |                    |         |
| 12,000.00                                   | 8,835.00            | 12,622.00           | 9,368.08            | 72.92           | 100.70      | 100.44                | -1,781.95                         | 3,157.84   | 2,864.14             | 2,692.28              | 171.86                  | 16.665            |                    |         |
| 12,100.00                                   | 8,835.00            | 12,729.53           | 9,368.29            | 74.76           | 103.62      | 100.45                | -1,779.00                         | 3,265.32   | 2,862.08             | 2,685.53              | 176.54                  | 16.212            |                    |         |
| 12,200.00                                   | 8,835.00            | 12,779.43           | 9,368.23            | 76.61           | 104.98      | 100.45                | -1,778.06                         | 3,315.21   | 2,860.66             | 2,680.93              | 179.73                  | 15.917            |                    |         |
| 12,251.75                                   | 8,835.00            | 12,812.00           | 9,368.17            | 77.58           | 105.87      | 100.45                | -1,777.80                         | 3,347.79   | 2,860.52             | 2,678.97              | 181.55                  | 15.756            |                    |         |
| 12,300.00                                   | 8,835.00            | 12,846.81           | 9,368.11            | 78.47           | 106.83      | 100.45                | -1,777.72                         | 3,382.59   | 2,860.67             | 2,677.30              | 183.36                  | 15.601            |                    |         |
| 12,400.00                                   | 8,835.00            | 12,926.91           | 9,368.19            | 80.34           | 109.02      | 100.45                | -1,777.87                         | 3,462.69   | 2,861.46             | 2,674.11              | 187.35                  | 15.273            |                    |         |
| 12,500.00                                   | 8,835.00            | 13,002.00           | 9,369.37            | 82.22           | 111.09      | 100.47                | -1,778.43                         | 3,537.77   | 2,863.06             | 2,671.88              | 191.19                  | 14.975            |                    |         |
| 12,600.00                                   | 8,835.00            | 13,112.56           | 9,372.08            | 84.11           | 114.13      | 100.52                | -1,779.44                         | 3,648.29   | 2,865.00             | 2,668.97              | 196.04                  | 14.615            |                    |         |
| 12,700.00                                   | 8,835.00            | 13,248.22           | 9,375.18            | 86.00           | 117.87      | 100.57                | -1,779.29                         | 3,783.91   | 2,865.84             | 2,664.25              | 201.59                  | 14.216            |                    |         |
| 12,800.00                                   | 8,835.00            | 13,333.73           | 9,376.97            | 87.90           | 120.23      | 100.61                | -1,778.87                         | 3,869.41   | 2,866.36             | 2,660.60              | 205.76                  | 13.931            |                    |         |
| 12,900.00                                   | 8,835.00            | 13,429.17           | 9,379.16            | 89.81           | 122.88      | 100.65                | -1,779.15                         | 3,964.83   | 2,867.65             | 2,657.44              | 210.21                  | 13.642            |                    |         |
| 13,000.00                                   | 8,835.00            | 13,527.29           | 9,382.14            | 91.72           | 125.60      | 100.71                | -1,778.86                         | 4,062.89   | 2,868.51             | 2,653.77              | 214.74                  | 13.358            |                    |         |
| 13,100.00                                   | 8,835.00            | 13,639.97           | 9,385.36            | 93.64           | 128.72      | 100.77                | -1,779.04                         | 4,175.53   | 2,869.83             | 2,650.15              | 219.68                  | 13.064            |                    |         |
| 13,200.00                                   | 8,835.00            | 13,776.23           | 9,388.95            | 95.56           | 132.51      | 100.84                | -1,777.38                         | 4,311.73   | 2,869.64             | 2,644.37              | 225.27                  | 12.738            |                    |         |
| 13,246.95                                   | 8,835.00            | 13,807.51           | 9,389.47            | 96.47           | 133.38      | 100.85                | -1,777.01                         | 4,343.00   | 2,869.51             | 2,642.50              | 227.01                  | 12.640            |                    |         |
| 13,300.00                                   | 8,835.00            | 13,842.86           | 9,389.81            | 97.49           | 134.37      | 100.86                | -1,776.84                         | 4,378.35   | 2,869.68             | 2,640.70              | 228.97                  | 12.533            |                    |         |
| 13,400.00                                   | 8,835.00            | 13,939.20           | 9,389.06            | 99.42           | 137.05      | 100.84                | -1,777.20                         | 4,474.69   | 2,870.47             | 2,636.95              | 233.52                  | 12.292            |                    |         |
| 13,500.00                                   | 8,835.00            | 14,011.79           | 9,387.72            | 101.36          | 139.08      | 100.81                | -1,777.85                         | 4,547.26   | 2,871.62             | 2,634.21              | 237.41                  | 12.096            |                    |         |
| 13,600.00                                   | 8,835.00            | 14,104.99           | 9,388.31            | 103.30          | 141.69      | 100.81                | -1,779.15                         | 4,640.45   | 2,873.68             | 2,631.81              | 241.87                  | 11.881            |                    |         |
| 13,700.00                                   | 8,835.00            | 14,212.10           | 9,390.64            | 105.25          | 144.68      | 100.85                | -1,779.96                         | 4,747.53   | 2,875.40             | 2,628.69              | 246.72                  | 11.655            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|---------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 438-MWD+HDGM, 9290-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |         |
| Measured Depth (ft)                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 13,800.00                                   | 8,835.00            | 14,388.71           | 9,398.58            | 107.20          | 149.62      | 101.01                | -1,777.79                         | 4,923.93   | 2,875.54             | 2,622.10              | 253.43                  | 11.346            |                    |         |
| 13,900.00                                   | 8,835.00            | 14,503.76           | 9,404.73            | 109.15          | 152.83      | 101.14                | -1,774.48                         | 5,038.76   | 2,874.33             | 2,615.92              | 258.41                  | 11.123            |                    |         |
| 14,000.00                                   | 8,835.00            | 14,620.05           | 9,410.28            | 111.10          | 156.07      | 101.26                | -1,770.60                         | 5,154.85   | 2,872.56             | 2,609.14              | 263.42                  | 10.905            |                    |         |
| 14,100.00                                   | 8,835.00            | 14,719.50           | 9,414.44            | 113.06          | 158.85      | 101.36                | -1,767.11                         | 5,254.15   | 2,870.52             | 2,602.51              | 268.01                  | 10.711            |                    |         |
| 14,200.00                                   | 8,835.00            | 14,800.94           | 9,417.27            | 115.03          | 161.13      | 101.42                | -1,764.66                         | 5,335.51   | 2,868.84             | 2,596.69              | 272.15                  | 10.541            |                    |         |
| 14,300.00                                   | 8,835.00            | 14,878.10           | 9,418.16            | 116.99          | 163.30      | 101.44                | -1,763.24                         | 5,412.65   | 2,867.85             | 2,591.65              | 276.20                  | 10.383            |                    |         |
| 14,400.00                                   | 8,835.00            | 14,964.70           | 9,417.54            | 118.96          | 165.74      | 101.43                | -1,762.60                         | 5,499.24   | 2,867.56             | 2,587.03              | 280.53                  | 10.222            |                    |         |
| 14,500.00                                   | 8,835.00            | 15,076.18           | 9,418.66            | 120.93          | 168.87      | 101.45                | -1,761.48                         | 5,610.71   | 2,867.38             | 2,581.85              | 285.53                  | 10.042            |                    |         |
| 14,600.00                                   | 8,835.00            | 15,201.28           | 9,420.73            | 122.90          | 172.39      | 101.50                | -1,759.16                         | 5,735.77   | 2,866.48             | 2,575.60              | 290.87                  | 9.855             |                    |         |
| 14,700.00                                   | 8,835.00            | 15,336.05           | 9,425.34            | 124.88          | 176.18      | 101.61                | -1,754.38                         | 5,870.37   | 2,864.20             | 2,567.81              | 296.39                  | 9.664             |                    |         |
| 14,800.00                                   | 8,835.00            | 15,448.66           | 9,429.61            | 126.86          | 179.34      | 101.71                | -1,749.67                         | 5,982.80   | 2,861.45             | 2,560.13              | 301.32                  | 9.496             |                    |         |
| 14,900.00                                   | 8,835.00            | 15,520.82           | 9,432.04            | 128.84          | 181.36      | 101.76                | -1,746.68                         | 6,054.86   | 2,858.73             | 2,553.47              | 305.26                  | 9.365             |                    |         |
| 15,000.00                                   | 8,835.00            | 15,587.11           | 9,433.38            | 130.82          | 183.23      | 101.80                | -1,745.11                         | 6,121.12   | 2,857.35             | 2,548.32              | 309.03                  | 9.246             |                    |         |
| 15,100.00                                   | 8,835.00            | 15,698.47           | 9,435.02            | 132.80          | 186.37      | 101.83                | -1,743.05                         | 6,232.44   | 2,856.45             | 2,542.43              | 314.02                  | 9.096             |                    |         |
| 15,200.00                                   | 8,835.00            | 15,806.77           | 9,436.38            | 134.79          | 189.43      | 101.87                | -1,740.19                         | 6,340.69   | 2,854.68             | 2,535.76              | 318.92                  | 8.951             |                    |         |
| 15,300.00                                   | 8,835.00            | 15,899.52           | 9,436.02            | 136.78          | 192.04      | 101.87                | -1,738.52                         | 6,433.42   | 2,853.41             | 2,529.96              | 323.45                  | 8.822             |                    |         |
| 15,400.00                                   | 8,835.00            | 15,985.34           | 9,435.48            | 138.76          | 194.47      | 101.86                | -1,736.94                         | 6,519.24   | 2,852.10             | 2,524.31              | 327.79                  | 8.701             |                    |         |
| 15,461.01                                   | 8,835.00            | 16,022.97           | 9,435.52            | 139.98          | 195.53      | 101.86                | -1,736.55                         | 6,556.86   | 2,851.85             | 2,521.83              | 330.02                  | 8.641             |                    |         |
| 15,500.00                                   | 8,835.00            | 16,047.85           | 9,435.66            | 140.76          | 196.24      | 101.86                | -1,736.44                         | 6,581.74   | 2,851.95             | 2,520.50              | 331.45                  | 8.604             |                    |         |
| 15,600.00                                   | 8,835.00            | 16,163.40           | 9,436.44            | 142.75          | 199.51      | 101.88                | -1,735.90                         | 6,697.28   | 2,852.22             | 2,515.60              | 336.62                  | 8.473             |                    |         |
| 15,697.09                                   | 8,835.00            | 16,259.06           | 9,437.25            | 144.68          | 202.21      | 101.90                | -1,734.83                         | 6,792.94   | 2,851.90             | 2,510.74              | 341.15                  | 8.360             |                    |         |
| 15,700.00                                   | 8,835.00            | 16,260.72           | 9,437.27            | 144.74          | 202.26      | 101.90                | -1,734.81                         | 6,794.59   | 2,851.90             | 2,510.64              | 341.25                  | 8.357             |                    |         |
| 15,800.00                                   | 8,835.00            | 16,328.00           | 9,438.62            | 146.74          | 204.17      | 101.92                | -1,734.77                         | 6,861.86   | 2,852.73             | 2,507.72              | 345.01                  | 8.269             |                    |         |
| 15,900.00                                   | 8,835.00            | 16,390.45           | 9,440.58            | 148.73          | 205.94      | 101.96                | -1,735.37                         | 6,924.28   | 2,854.78             | 2,506.22              | 348.55                  | 8.190             |                    |         |
| 16,000.00                                   | 8,835.00            | 16,500.79           | 9,445.37            | 150.73          | 209.06      | 102.04                | -1,736.58                         | 7,034.50   | 2,857.36             | 2,503.84              | 353.52                  | 8.083             |                    |         |
| 16,100.00                                   | 8,835.00            | 16,596.41           | 9,450.46            | 152.73          | 211.77      | 102.14                | -1,737.00                         | 7,129.99   | 2,859.49             | 2,501.48              | 358.01                  | 7.987             |                    |         |
| 16,200.00                                   | 8,835.00            | 16,703.01           | 9,456.69            | 154.73          | 214.79      | 102.26                | -1,737.46                         | 7,236.40   | 2,861.74             | 2,498.92              | 362.82                  | 7.888             |                    |         |
| 16,300.00                                   | 8,835.00            | 16,811.19           | 9,463.43            | 156.73          | 217.85      | 102.39                | -1,737.49                         | 7,344.37   | 2,863.68             | 2,496.03              | 367.65                  | 7.789             |                    |         |
| 16,400.00                                   | 8,835.00            | 16,932.66           | 9,469.29            | 158.74          | 221.29      | 102.50                | -1,737.35                         | 7,465.70   | 2,865.21             | 2,492.30              | 372.90                  | 7.684             |                    |         |
| 16,500.00                                   | 8,835.00            | 17,048.26           | 9,472.96            | 160.74          | 224.57      | 102.57                | -1,736.57                         | 7,581.24   | 2,865.79             | 2,487.78              | 378.01                  | 7.581             |                    |         |
| 16,600.00                                   | 8,835.00            | 17,166.49           | 9,472.10            | 162.74          | 227.92      | 102.55                | -1,736.45                         | 7,699.46   | 2,866.14             | 2,482.84              | 383.30                  | 7.478             |                    |         |
| 16,626.13                                   | 8,835.00            | 17,201.28           | 9,471.06            | 163.27          | 228.91      | 102.53                | -1,736.37                         | 7,734.23   | 2,866.06             | 2,481.26              | 384.81                  | 7.448             |                    |         |
| 16,700.00                                   | 8,835.00            | 17,234.93           | 9,470.53            | 164.75          | 229.87      | 102.52                | -1,736.55                         | 7,767.88   | 2,866.43             | 2,479.26              | 387.17                  | 7.404             |                    |         |
| 16,800.00                                   | 8,835.00            | 17,304.98           | 9,470.32            | 166.76          | 231.86      | 102.51                | -1,737.38                         | 7,837.92   | 2,868.05             | 2,477.04              | 391.01                  | 7.335             |                    |         |
| 16,900.00                                   | 8,835.00            | 17,413.53           | 9,473.55            | 168.77          | 234.94      | 102.56                | -1,738.29                         | 7,946.41   | 2,870.11             | 2,474.15              | 395.95                  | 7.249             |                    |         |
| 17,000.00                                   | 8,835.00            | 17,518.06           | 9,477.32            | 170.77          | 237.91      | 102.63                | -1,738.31                         | 8,050.87   | 2,871.49             | 2,470.74              | 400.75                  | 7.165             |                    |         |
| 17,100.00                                   | 8,835.00            | 17,611.25           | 9,480.15            | 172.78          | 240.56      | 102.69                | -1,738.86                         | 8,144.02   | 2,873.30             | 2,468.08              | 405.22                  | 7.091             |                    |         |
| 17,200.00                                   | 8,835.00            | 17,754.83           | 9,482.86            | 174.79          | 244.64      | 102.73                | -1,739.19                         | 8,287.57   | 2,874.60             | 2,463.39              | 411.21                  | 6.991             |                    |         |
| 17,300.00                                   | 8,835.00            | 17,846.79           | 9,484.29            | 176.81          | 247.26      | 102.76                | -1,738.73                         | 8,379.52   | 2,875.04             | 2,459.35              | 415.68                  | 6.916             |                    |         |
| 17,400.00                                   | 8,835.00            | 17,849.00           | 9,484.32            | 178.82          | 247.32      | 102.76                | -1,738.72                         | 8,381.73   | 2,877.27             | 2,459.93              | 417.34                  | 6.894             |                    |         |
| 17,500.00                                   | 8,835.00            | 17,906.03           | 9,491.05            | 180.83          | 248.86      | 102.89                | -1,738.59                         | 8,438.26   | 2,881.01             | 2,460.70              | 420.31                  | 6.854             |                    |         |
| 17,600.00                                   | 8,835.00            | 18,174.22           | 9,518.83            | 182.84          | 256.29      | 103.42                | -1,738.66                         | 8,702.87   | 2,884.62             | 2,455.16              | 429.47                  | 6.717             |                    |         |
| 17,700.00                                   | 8,835.00            | 18,337.79           | 9,520.68            | 184.86          | 260.93      | 103.47                | -1,734.42                         | 8,866.38   | 2,882.73             | 2,446.93              | 435.80                  | 6.615             |                    |         |
| 17,800.00                                   | 8,835.00            | 18,450.41           | 9,521.89            | 186.87          | 264.12      | 103.51                | -1,730.31                         | 8,978.91   | 2,880.01             | 2,439.22              | 440.78                  | 6.534             |                    |         |
| 17,900.00                                   | 8,835.00            | 18,540.98           | 9,522.79            | 188.89          | 266.69      | 103.54                | -1,726.91                         | 9,069.42   | 2,877.19             | 2,431.95              | 445.24                  | 6.462             |                    |         |
| 18,000.00                                   | 8,835.00            | 18,619.36           | 9,525.09            | 190.91          | 268.92      | 103.60                | -1,724.18                         | 9,147.71   | 2,875.05             | 2,425.71              | 449.34                  | 6.398             |                    |         |
| 18,100.00                                   | 8,835.00            | 18,717.28           | 9,529.47            | 192.92          | 271.69      | 103.70                | -1,720.71                         | 9,245.47   | 2,873.24             | 2,419.38              | 453.86                  | 6.331             |                    |         |
| 18,200.00                                   | 8,835.00            | 18,803.59           | 9,533.98            | 194.94          | 274.14      | 103.79                | -1,717.83                         | 9,331.61   | 2,871.81             | 2,413.74              | 458.07                  | 6.269             |                    |         |
| 18,300.00                                   | 8,835.00            | 18,942.46           | 9,541.96            | 196.96          | 278.06      | 103.97                | -1,711.87                         | 9,470.13   | 2,869.47             | 2,406.00              | 463.48                  | 6.191             |                    |         |
| 18,400.00                                   | 8,835.00            | 19,050.69           | 9,549.04            | 198.98          | 281.12      | 104.13                | -1,706.55                         | 9,578.00   | 2,866.87             | 2,398.76              | 468.11                  | 6.124             |                    |         |
| 18,500.00                                   | 8,835.00            | 19,160.15           | 9,556.96            | 201.00          | 284.20      | 104.31                | -1,700.38                         | 9,686.99   | 2,863.74             | 2,391.02              | 472.73                  | 6.058             |                    |         |
| 18,600.00                                   | 8,835.00            | 19,172.00           | 9,557.83            | 203.02          | 284.54      | 104.33                | -1,699.70                         | 9,698.79   | 2,861.91             | 2,386.78              | 475.13                  | 6.023             |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 336H - ST01 - ST01 |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 0.00 ft |
|-------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|---------|
| Survey Program: 438-MWD+HDGM, 9290-MWD+HDGM                                               |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                 |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                           | Warning |
| Measured Depth<br>(ft)                                                                    | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |         |
| 18,603.10                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 203.08            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,861.91                   | 2,386.72                    | 475.19                        | 6.023                     |         |
| 18,700.00                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 205.04            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,863.55                   | 2,386.81                    | 476.74                        | 6.007                     |         |
| 18,800.00                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 207.06            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,868.68                   | 2,390.90                    | 477.78                        | 6.004 SF                  |         |
| 18,900.00                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 209.08            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,877.27                   | 2,399.02                    | 478.25                        | 6.016                     |         |
| 19,000.00                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 211.10            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,889.30                   | 2,411.14                    | 478.17                        | 6.042                     |         |
| 19,100.00                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 213.12            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,904.73                   | 2,427.19                    | 477.54                        | 6.083                     |         |
| 19,200.00                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 215.15            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,923.50                   | 2,447.11                    | 476.39                        | 6.137                     |         |
| 19,308.27                                                                                 | 8,835.00               | 19,172.00              | 9,557.83               | 217.34            | 284.54         | 104.33                      | -1,699.70                               | 9,698.79      | 2,947.51                   | 2,472.93                    | 474.58                        | 6.211                     |         |



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 438-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                         | 0.00                | 13.82               | 13.82               | 0.50            | 0.50        | -176.46               | -1,723.38                         | -106.64    | 1,726.67             |                       |                         |                   |                    |         |
| 100.00                       | 100.00              | 110.43              | 110.42              | 0.52            | 0.53        | -176.46               | -1,723.51                         | -106.51    | 1,726.80             | 1,725.75              | 1.05                    | 1,642.168         |                    |         |
| 200.00                       | 200.00              | 207.03              | 207.03              | 0.70            | 0.61        | -176.47               | -1,723.84                         | -106.20    | 1,727.12             | 1,725.81              | 1.31                    | 1,315.798         |                    |         |
| 300.00                       | 300.00              | 303.64              | 303.63              | 0.99            | 0.72        | -176.49               | -1,724.37                         | -105.69    | 1,727.64             | 1,725.94              | 1.70                    | 1,013.764         |                    |         |
| 400.00                       | 400.00              | 400.24              | 400.23              | 1.31            | 0.84        | -176.52               | -1,725.11                         | -104.99    | 1,728.36             | 1,726.20              | 2.15                    | 803.606           |                    |         |
| 500.00                       | 500.00              | 496.20              | 496.18              | 1.65            | 1.07        | -176.55               | -1,726.05                         | -104.13    | 1,729.28             | 1,726.56              | 2.72                    | 635.911           |                    |         |
| 600.00                       | 600.00              | 595.87              | 595.84              | 1.99            | 1.40        | -176.58               | -1,727.19                         | -103.24    | 1,730.38             | 1,726.99              | 3.39                    | 510.419           |                    |         |
| 700.00                       | 700.00              | 693.41              | 693.37              | 2.34            | 1.73        | -176.60               | -1,728.32                         | -102.62    | 1,731.49             | 1,727.42              | 4.07                    | 425.483           |                    |         |
| 800.00                       | 800.00              | 792.24              | 792.19              | 2.69            | 2.07        | -176.62               | -1,729.58                         | -102.17    | 1,732.74             | 1,727.98              | 4.76                    | 363.894           |                    |         |
| 900.00                       | 900.00              | 894.25              | 894.19              | 3.04            | 2.43        | -176.64               | -1,730.88                         | -101.51    | 1,733.97             | 1,728.49              | 5.47                    | 316.939           |                    |         |
| 1,000.00                     | 1,000.00            | 989.96              | 989.88              | 3.40            | 2.77        | -176.68               | -1,732.21                         | -100.60    | 1,735.30             | 1,729.14              | 6.16                    | 281.618           |                    |         |
| 1,100.00                     | 1,100.00            | 1,112.58            | 1,112.50            | 3.75            | 3.19        | -176.73               | -1,733.31                         | -99.14     | 1,736.14             | 1,729.20              | 6.94                    | 250.077           |                    |         |
| 1,200.00                     | 1,200.00            | 1,232.14            | 1,232.04            | 4.11            | 3.59        | -176.70               | -1,732.57                         | -99.90     | 1,735.54             | 1,727.85              | 7.69                    | 225.604           |                    |         |
| 1,300.00                     | 1,300.00            | 1,343.65            | 1,343.52            | 4.46            | 3.95        | -176.62               | -1,730.92                         | -102.28    | 1,734.19             | 1,725.77              | 8.41                    | 206.129           |                    |         |
| 1,400.00                     | 1,400.00            | 1,443.47            | 1,443.28            | 4.82            | 4.29        | -176.52               | -1,729.04                         | -105.09    | 1,732.47             | 1,723.37              | 9.10                    | 190.312           |                    |         |
| 1,500.00                     | 1,500.00            | 1,532.13            | 1,531.89            | 5.18            | 4.59        | -176.44               | -1,727.71                         | -107.50    | 1,731.15             | 1,721.38              | 9.76                    | 177.358           |                    |         |
| 1,600.00                     | 1,600.00            | 1,630.29            | 1,630.02            | 5.53            | 4.92        | -176.35               | -1,726.61                         | -110.19    | 1,730.20             | 1,719.74              | 10.45                   | 165.516           |                    |         |
| 1,700.00                     | 1,700.00            | 1,732.81            | 1,732.49            | 5.89            | 5.27        | -176.25               | -1,725.44                         | -112.99    | 1,729.24             | 1,718.07              | 11.16                   | 154.903           |                    |         |
| 1,800.00                     | 1,800.00            | 1,837.77            | 1,837.40            | 6.25            | 5.64        | -176.15               | -1,723.98                         | -115.93    | 1,728.02             | 1,716.14              | 11.88                   | 145.412           |                    |         |
| 1,900.00                     | 1,900.00            | 1,936.31            | 1,935.89            | 6.61            | 5.98        | -176.06               | -1,722.45                         | -118.48    | 1,726.65             | 1,714.07              | 12.58                   | 137.213           |                    |         |
| 2,000.00                     | 2,000.00            | 2,029.15            | 2,028.70            | 6.96            | 6.30        | -175.99               | -1,721.35                         | -120.74    | 1,725.64             | 1,712.38              | 13.27                   | 130.081           |                    |         |
| 2,044.39                     | 2,044.39            | 2,071.95            | 2,071.49            | 7.12            | 6.45        | -163.17               | -1,720.94                         | -121.80    | 1,725.46             | 1,711.88              | 13.57                   | 127.110 CC        |                    |         |
| 2,100.00                     | 2,099.99            | 2,126.07            | 2,125.58            | 7.32            | 6.64        | -163.13               | -1,720.47                         | -123.20    | 1,725.74             | 1,711.78              | 13.96                   | 123.592 ES        |                    |         |
| 2,200.00                     | 2,199.96            | 2,225.52            | 2,224.99            | 7.68            | 6.99        | -163.06               | -1,719.66                         | -125.99    | 1,727.64             | 1,712.97              | 14.67                   | 117.761           |                    |         |
| 2,300.00                     | 2,299.86            | 2,327.71            | 2,327.14            | 8.04            | 7.35        | -162.99               | -1,718.74                         | -128.89    | 1,731.13             | 1,715.74              | 15.39                   | 112.495           |                    |         |
| 2,400.00                     | 2,399.68            | 2,431.14            | 2,430.53            | 8.39            | 7.72        | -162.94               | -1,717.66                         | -131.82    | 1,736.13             | 1,720.02              | 16.11                   | 107.760           |                    |         |
| 2,500.00                     | 2,499.37            | 2,533.13            | 2,532.46            | 8.75            | 8.08        | -162.89               | -1,716.36                         | -134.91    | 1,742.59             | 1,725.76              | 16.83                   | 103.543           |                    |         |
| 2,600.00                     | 2,598.90            | 2,629.83            | 2,629.10            | 9.11            | 8.42        | -162.86               | -1,715.14                         | -137.85    | 1,750.73             | 1,733.20              | 17.53                   | 99.869            |                    |         |
| 2,700.00                     | 2,698.26            | 2,725.07            | 2,724.30            | 9.46            | 8.76        | -162.84               | -1,714.19                         | -140.72    | 1,760.78             | 1,742.56              | 18.23                   | 96.609            |                    |         |
| 2,800.00                     | 2,797.40            | 2,829.98            | 2,829.15            | 9.82            | 9.13        | -162.84               | -1,713.11                         | -143.67    | 1,772.44             | 1,753.49              | 18.96                   | 93.502            |                    |         |
| 2,900.00                     | 2,896.30            | 2,928.23            | 2,927.35            | 10.18           | 9.48        | -162.84               | -1,711.94                         | -146.60    | 1,785.63             | 1,765.96              | 19.66                   | 90.809            |                    |         |
| 3,000.00                     | 2,994.93            | 2,999.57            | 2,998.66            | 10.54           | 9.74        | -162.84               | -1,711.72                         | -148.55    | 1,801.28             | 1,781.01              | 20.27                   | 88.854            |                    |         |
| 3,100.00                     | 3,093.26            | 3,083.97            | 3,083.05            | 10.90           | 10.04       | -162.88               | -1,712.49                         | -150.29    | 1,819.75             | 1,798.83              | 20.93                   | 86.962            |                    |         |
| 3,195.07                     | 3,186.42            | 3,173.91            | 3,172.96            | 11.24           | 10.36       | -162.93               | -1,713.70                         | -152.18    | 1,839.25             | 1,817.66              | 21.58                   | 85.216            |                    |         |
| 3,200.00                     | 3,191.25            | 3,178.73            | 3,177.78            | 11.26           | 10.37       | -162.94               | -1,713.77                         | -152.28    | 1,840.30             | 1,818.68              | 21.62                   | 85.126            |                    |         |
| 3,300.00                     | 3,289.08            | 3,264.08            | 3,263.10            | 11.62           | 10.67       | -163.06               | -1,715.16                         | -153.63    | 1,861.85             | 1,839.58              | 22.27                   | 83.604            |                    |         |
| 3,400.00                     | 3,386.91            | 3,346.36            | 3,345.36            | 11.98           | 10.96       | -163.23               | -1,717.31                         | -153.35    | 1,884.24             | 1,861.33              | 22.90                   | 82.264            |                    |         |
| 3,500.00                     | 3,484.74            | 3,475.17            | 3,474.10            | 12.35           | 11.40       | -163.53               | -1,720.83                         | -151.44    | 1,906.85             | 1,883.13              | 23.72                   | 80.395            |                    |         |
| 3,600.00                     | 3,582.58            | 3,594.64            | 3,593.55            | 12.72           | 11.80       | -163.79               | -1,721.68                         | -149.87    | 1,927.36             | 1,902.87              | 24.49                   | 78.687            |                    |         |
| 3,700.00                     | 3,680.41            | 3,685.05            | 3,683.95            | 13.09           | 12.11       | -163.99               | -1,722.15                         | -148.58    | 1,947.72             | 1,922.56              | 25.16                   | 77.406            |                    |         |
| 3,800.00                     | 3,778.24            | 3,780.71            | 3,779.61            | 13.46           | 12.44       | -164.19               | -1,722.80                         | -147.15    | 1,968.26             | 1,942.41              | 25.85                   | 76.133            |                    |         |
| 3,900.00                     | 3,876.08            | 3,876.81            | 3,875.69            | 13.83           | 12.77       | -164.39               | -1,723.54                         | -145.84    | 1,988.92             | 1,962.37              | 26.55                   | 74.924            |                    |         |
| 4,000.00                     | 3,973.91            | 3,975.50            | 3,974.37            | 14.21           | 13.11       | -164.58               | -1,724.28                         | -144.81    | 2,009.59             | 1,982.34              | 27.25                   | 73.742            |                    |         |
| 4,100.00                     | 4,071.74            | 4,073.90            | 4,072.76            | 14.58           | 13.45       | -164.77               | -1,725.02                         | -143.85    | 2,030.29             | 2,002.33              | 27.96                   | 72.619            |                    |         |
| 4,200.00                     | 4,169.57            | 4,175.37            | 4,174.23            | 14.96           | 13.80       | -164.95               | -1,725.52                         | -143.05    | 2,050.77             | 2,022.09              | 28.68                   | 71.510            |                    |         |
| 4,300.00                     | 4,267.41            | 4,265.69            | 4,264.55            | 15.33           | 14.11       | -165.11               | -1,726.16                         | -142.44    | 2,071.47             | 2,042.11              | 29.36                   | 70.566            |                    |         |
| 4,400.00                     | 4,365.24            | 4,363.96            | 4,362.82            | 15.71           | 14.46       | -165.26               | -1,727.01                         | -142.03    | 2,092.35             | 2,062.28              | 30.07                   | 69.591            |                    |         |
| 4,500.00                     | 4,463.07            | 4,465.86            | 4,464.70            | 16.09           | 14.82       | -165.42               | -1,727.68                         | -141.80    | 2,113.05             | 2,082.25              | 30.79                   | 68.618            |                    |         |
| 4,600.00                     | 4,560.90            | 4,563.06            | 4,561.91            | 16.47           | 15.16       | -165.57               | -1,728.30                         | -141.53    | 2,133.74             | 2,102.23              | 31.50                   | 67.729            |                    |         |
| 4,700.00                     | 4,658.74            | 4,660.46            | 4,659.31            | 16.85           | 15.50       | -165.70               | -1,728.89                         | -141.51    | 2,154.42             | 2,122.20              | 32.22                   | 66.874            |                    |         |
| 4,800.00                     | 4,756.57            | 4,756.75            | 4,755.59            | 17.23           | 15.84       | -165.84               | -1,729.56                         | -141.50    | 2,175.19             | 2,142.27              | 32.92                   | 66.066            |                    |         |
| 4,900.00                     | 4,854.40            | 4,856.71            | 4,855.55            | 17.61           | 16.19       | -165.97               | -1,730.23                         | -141.65    | 2,195.96             | 2,162.31              | 33.65                   | 65.260            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 438-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,000.00                     | 4,952.23            | 4,946.34            | 4,945.17            | 17.99           | 16.51       | -166.08               | -1,730.78                         | -141.82    | 2,216.70             | 2,182.37              | 34.33                   | 64.569            |                    |         |
| 5,100.00                     | 5,050.07            | 5,027.50            | 5,026.32            | 18.37           | 16.79       | -166.16               | -1,731.94                         | -142.93    | 2,238.22             | 2,203.25              | 34.98                   | 63.995            |                    |         |
| 5,200.00                     | 5,147.90            | 5,126.70            | 5,125.49            | 18.75           | 17.14       | -166.24               | -1,733.54                         | -144.93    | 2,259.96             | 2,224.27              | 35.70                   | 63.306            |                    |         |
| 5,300.00                     | 5,245.73            | 5,222.43            | 5,221.18            | 19.14           | 17.48       | -166.31               | -1,735.11                         | -147.02    | 2,281.74             | 2,245.33              | 36.41                   | 62.672            |                    |         |
| 5,400.00                     | 5,343.56            | 5,317.54            | 5,316.25            | 19.52           | 17.82       | -166.37               | -1,736.75                         | -149.13    | 2,303.59             | 2,266.47              | 37.11                   | 62.067            |                    |         |
| 5,500.00                     | 5,441.40            | 5,412.21            | 5,410.88            | 19.90           | 18.16       | -166.43               | -1,738.52                         | -151.50    | 2,325.59             | 2,287.77              | 37.82                   | 61.492            |                    |         |
| 5,600.00                     | 5,539.23            | 5,508.86            | 5,507.44            | 20.29           | 18.50       | -166.45               | -1,740.33                         | -155.34    | 2,347.61             | 2,309.07              | 38.53                   | 60.922            |                    |         |
| 5,700.00                     | 5,637.06            | 5,598.02            | 5,596.46            | 20.67           | 18.82       | -166.45               | -1,742.18                         | -159.86    | 2,369.83             | 2,330.62              | 39.22                   | 60.432            |                    |         |
| 5,800.00                     | 5,734.90            | 5,684.85            | 5,683.16            | 21.05           | 19.13       | -166.45               | -1,744.39                         | -164.02    | 2,392.51             | 2,352.62              | 39.89                   | 59.985            |                    |         |
| 5,900.00                     | 5,832.73            | 5,784.75            | 5,782.92            | 21.44           | 19.48       | -166.46               | -1,747.05                         | -168.53    | 2,415.30             | 2,374.68              | 40.62                   | 59.465            |                    |         |
| 6,000.00                     | 5,930.56            | 5,882.76            | 5,880.81            | 21.83           | 19.83       | -166.47               | -1,749.61                         | -172.76    | 2,438.04             | 2,396.70              | 41.34                   | 58.974            |                    |         |
| 6,100.00                     | 6,028.39            | 5,981.82            | 5,979.76            | 22.21           | 20.19       | -166.49               | -1,752.16                         | -176.69    | 2,460.75             | 2,418.68              | 42.07                   | 58.492            |                    |         |
| 6,200.00                     | 6,126.23            | 6,089.81            | 6,087.64            | 22.60           | 20.57       | -166.52               | -1,754.75                         | -180.58    | 2,483.28             | 2,440.44              | 42.84                   | 57.964            |                    |         |
| 6,300.00                     | 6,224.06            | 6,196.24            | 6,193.99            | 22.98           | 20.95       | -166.55               | -1,756.65                         | -184.51    | 2,505.20             | 2,461.60              | 43.61                   | 57.451            |                    |         |
| 6,400.00                     | 6,321.89            | 6,286.22            | 6,283.90            | 23.37           | 21.27       | -166.58               | -1,758.34                         | -187.63    | 2,527.23             | 2,482.93              | 44.29                   | 57.057            |                    |         |
| 6,500.00                     | 6,419.72            | 6,370.98            | 6,368.59            | 23.76           | 21.58       | -166.61               | -1,760.26                         | -190.48    | 2,549.62             | 2,504.67              | 44.96                   | 56.715            |                    |         |
| 6,600.00                     | 6,517.56            | 6,454.17            | 6,451.70            | 24.14           | 21.87       | -166.64               | -1,762.66                         | -193.07    | 2,572.62             | 2,527.01              | 45.61                   | 56.406            |                    |         |
| 6,700.00                     | 6,615.39            | 6,549.24            | 6,546.68            | 24.53           | 22.22       | -166.68               | -1,765.64                         | -195.92    | 2,595.87             | 2,549.54              | 46.32                   | 56.041            |                    |         |
| 6,800.00                     | 6,713.22            | 6,643.03            | 6,640.36            | 24.92           | 22.55       | -166.71               | -1,768.71                         | -199.25    | 2,619.25             | 2,572.22              | 47.03                   | 55.697            |                    |         |
| 6,900.00                     | 6,811.05            | 6,753.43            | 6,750.61            | 25.30           | 22.95       | -166.72               | -1,772.24                         | -203.89    | 2,642.58             | 2,594.77              | 47.82                   | 55.266            |                    |         |
| 7,000.00                     | 6,908.89            | 6,878.42            | 6,875.53            | 25.69           | 23.40       | -166.78               | -1,774.93                         | -206.91    | 2,664.83             | 2,616.16              | 48.67                   | 54.750            |                    |         |
| 7,100.00                     | 7,006.72            | 6,986.12            | 6,983.20            | 26.08           | 23.78       | -166.86               | -1,776.65                         | -208.60    | 2,686.58             | 2,637.14              | 49.45                   | 54.334            |                    |         |
| 7,200.00                     | 7,104.55            | 7,087.18            | 7,084.25            | 26.47           | 24.14       | -166.94               | -1,777.92                         | -209.69    | 2,708.00             | 2,657.81              | 50.19                   | 53.958            |                    |         |
| 7,216.87                     | 7,121.05            | 7,100.95            | 7,098.02            | 26.53           | 24.19       | -166.95               | -1,778.10                         | -209.75    | 2,711.62             | 2,661.33              | 50.30                   | 53.913            |                    |         |
| 7,300.00                     | 7,202.57            | 7,228.78            | 7,225.82            | 26.85           | 24.63       | -167.18               | -1,778.31                         | -207.35    | 2,727.52             | 2,676.42              | 51.10                   | 53.379            |                    |         |
| 7,400.00                     | 7,301.06            | 7,307.87            | 7,304.85            | 27.23           | 24.90       | -167.36               | -1,778.32                         | -204.42    | 2,744.43             | 2,692.71              | 51.72                   | 53.065            |                    |         |
| 7,500.00                     | 7,399.97            | 7,389.51            | 7,386.46            | 27.61           | 25.18       | -167.51               | -1,778.88                         | -202.22    | 2,759.48             | 2,707.13              | 52.35                   | 52.714            |                    |         |
| 7,600.00                     | 7,499.23            | 7,488.36            | 7,485.29            | 27.98           | 25.52       | -167.64               | -1,779.87                         | -200.50    | 2,772.31             | 2,719.26              | 53.05                   | 52.255            |                    |         |
| 7,700.00                     | 7,598.77            | 7,588.97            | 7,585.89            | 28.34           | 25.87       | -167.74               | -1,780.87                         | -199.41    | 2,782.59             | 2,728.83              | 53.77                   | 51.754            |                    |         |
| 7,800.00                     | 7,698.53            | 7,688.65            | 7,685.56            | 28.70           | 26.22       | -167.80               | -1,781.83                         | -199.10    | 2,790.30             | 2,735.82              | 54.47                   | 51.224            |                    |         |
| 7,900.00                     | 7,798.44            | 7,780.76            | 7,777.66            | 29.05           | 26.54       | -167.84               | -1,782.79                         | -198.90    | 2,795.53             | 2,740.39              | 55.14                   | 50.699            |                    |         |
| 8,000.00                     | 7,898.42            | 7,853.31            | 7,850.21            | 29.39           | 26.80       | -167.86               | -1,784.05                         | -198.65    | 2,798.90             | 2,743.20              | 55.71                   | 50.243            |                    |         |
| 8,013.58                     | 7,912.00            | 7,864.00            | 7,860.89            | 29.43           | 26.84       | 179.36                | -1,784.30                         | -198.61    | 2,799.24             | 2,743.45              | 55.79                   | 50.177            |                    |         |
| 8,100.00                     | 7,998.42            | 7,990.80            | 7,987.67            | 29.73           | 27.28       | 179.32                | -1,785.92                         | -196.81    | 2,800.23             | 2,743.65              | 56.58                   | 49.495            |                    |         |
| 8,200.00                     | 8,098.42            | 8,076.80            | 8,073.64            | 30.07           | 27.57       | 179.29                | -1,787.00                         | -195.38    | 2,801.48             | 2,744.29              | 57.20                   | 48.977            |                    |         |
| 8,300.00                     | 8,198.42            | 8,193.24            | 8,190.04            | 30.41           | 27.98       | 179.23                | -1,788.21                         | -192.43    | 2,802.55             | 2,744.59              | 57.96                   | 48.349            |                    |         |
| 8,363.62                     | 8,262.04            | 8,256.46            | 8,253.25            | 30.62           | 28.19       | 179.21                | -1,788.65                         | -191.29    | 2,803.01             | 2,744.61              | 58.40                   | 47.996            |                    |         |
| 8,400.00                     | 8,298.40            | 8,282.10            | 8,278.89            | 30.75           | 28.28       | 89.53                 | -1,788.90                         | -191.01    | 2,803.37             | 2,744.77              | 58.60                   | 47.839            |                    |         |
| 8,450.00                     | 8,348.10            | 8,317.16            | 8,313.94            | 30.91           | 28.41       | 89.53                 | -1,789.42                         | -190.79    | 2,804.06             | 2,745.20              | 58.87                   | 47.634            |                    |         |
| 8,500.00                     | 8,397.14            | 8,357.28            | 8,354.06            | 31.07           | 28.55       | 89.60                 | -1,790.20                         | -190.75    | 2,804.98             | 2,745.82              | 59.16                   | 47.414            |                    |         |
| 8,550.00                     | 8,445.15            | 8,403.86            | 8,400.63            | 31.23           | 28.71       | 89.76                 | -1,791.17                         | -190.84    | 2,805.98             | 2,746.49              | 59.48                   | 47.173            |                    |         |
| 8,600.00                     | 8,491.77            | 8,448.47            | 8,445.22            | 31.38           | 28.87       | 89.99                 | -1,792.11                         | -191.05    | 2,807.08             | 2,747.28              | 59.80                   | 46.943            |                    |         |
| 8,650.00                     | 8,536.65            | 8,490.40            | 8,487.15            | 31.52           | 29.02       | 90.24                 | -1,793.04                         | -191.37    | 2,808.36             | 2,748.26              | 60.10                   | 46.728            |                    |         |
| 8,700.00                     | 8,579.43            | 8,530.20            | 8,526.93            | 31.66           | 29.16       | 90.51                 | -1,793.96                         | -191.81    | 2,809.92             | 2,749.52              | 60.40                   | 46.526            |                    |         |
| 8,750.00                     | 8,619.80            | 8,565.24            | 8,561.95            | 31.80           | 29.29       | 90.74                 | -1,794.82                         | -192.18    | 2,811.86             | 2,751.19              | 60.67                   | 46.346            |                    |         |
| 8,800.00                     | 8,657.44            | 8,598.16            | 8,594.86            | 31.93           | 29.41       | 90.95                 | -1,795.68                         | -192.43    | 2,814.27             | 2,753.32              | 60.94                   | 46.179            |                    |         |
| 8,850.00                     | 8,692.08            | 8,623.00            | 8,619.69            | 32.06           | 29.50       | 91.01                 | -1,796.37                         | -192.55    | 2,817.24             | 2,756.05              | 61.18                   | 46.046            |                    |         |
| 8,900.00                     | 8,723.44            | 8,650.59            | 8,647.27            | 32.19           | 29.59       | 91.09                 | -1,797.20                         | -192.67    | 2,820.86             | 2,759.41              | 61.45                   | 45.904            |                    |         |
| 8,950.00                     | 8,751.29            | 8,670.88            | 8,667.55            | 32.34           | 29.67       | 91.99                 | -1,797.87                         | -192.78    | 2,825.22             | 2,763.52              | 61.70                   | 45.792            |                    |         |
| 9,000.00                     | 8,775.42            | 8,688.38            | 8,685.04            | 32.50           | 29.73       | 90.79                 | -1,798.49                         | -192.89    | 2,830.36             | 2,768.42              | 61.95                   | 45.691            |                    |         |
| 9,050.00                     | 8,795.64            | 8,702.95            | 8,699.60            | 32.67           | 29.78       | 90.46                 | -1,799.04                         | -192.99    | 2,836.31             | 2,774.11              | 62.20                   | 45.600            |                    |         |
| 9,100.00                     | 8,811.80            | 8,717.00            | 8,713.64            | 32.87           | 29.83       | 90.05                 | -1,799.59                         | -193.10    | 2,843.08             | 2,780.60              | 62.47                   | 45.509            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 438-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                    |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)          | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 9,150.00                     | 8,823.77            | 8,717.00            | 8,713.64            | 33.10           | 29.83       | 89.28                 | -1,799.59                         | -193.10    | 2,850.66             | 2,787.97              | 62.69                   | 45.471            |                    |         |
| 9,200.00                     | 8,831.47            | 8,727.94            | 8,724.57            | 33.34           | 29.87       | 88.65                 | -1,800.03                         | -193.19    | 2,859.02             | 2,796.03              | 62.99                   | 45.389            |                    |         |
| 9,250.00                     | 8,834.84            | 8,730.02            | 8,726.64            | 33.60           | 29.88       | 87.77                 | -1,800.12                         | -193.20    | 2,868.12             | 2,804.86              | 63.25                   | 45.343            |                    |         |
| 9,263.62                     | 8,835.00            | 8,730.05            | 8,726.67            | 33.67           | 29.88       | 87.51                 | -1,800.12                         | -193.20    | 2,870.72             | 2,807.39              | 63.33                   | 45.332            |                    |         |
| 9,300.00                     | 8,835.00            | 8,729.82            | 8,726.45            | 33.88           | 29.88       | 87.50                 | -1,800.11                         | -193.20    | 2,877.94             | 2,814.42              | 63.52                   | 45.306            |                    |         |
| 9,400.00                     | 8,835.00            | 8,729.22            | 8,725.84            | 34.53           | 29.88       | 87.49                 | -1,800.09                         | -193.20    | 2,900.07             | 2,835.95              | 64.12                   | 45.225            |                    |         |
| 9,500.00                     | 8,835.00            | 8,728.61            | 8,725.24            | 35.30           | 29.87       | 87.48                 | -1,800.06                         | -193.19    | 2,925.45             | 2,860.65              | 64.80                   | 45.146            |                    |         |
| 9,600.00                     | 8,835.00            | 8,728.01            | 8,724.64            | 36.17           | 29.87       | 87.46                 | -1,800.04                         | -193.19    | 2,954.00             | 2,888.47              | 65.54                   | 45.074            |                    |         |
| 9,700.00                     | 8,835.00            | 8,727.42            | 8,724.05            | 37.13           | 29.87       | 87.45                 | -1,800.01                         | -193.18    | 2,985.63             | 2,919.31              | 66.32                   | 45.018            |                    |         |
| 9,800.00                     | 8,835.00            | 8,726.83            | 8,723.45            | 38.18           | 29.87       | 87.44                 | -1,799.99                         | -193.18    | 3,020.24             | 2,953.10              | 67.14                   | 44.983            |                    |         |
| 9,900.00                     | 8,835.00            | 8,726.24            | 8,722.87            | 39.31           | 29.87       | 87.43                 | -1,799.96                         | -193.17    | 3,057.73             | 2,989.74              | 67.99                   | 44.975 SF         |                    |         |
| 10,000.00                    | 8,835.00            | 8,725.65            | 8,722.28            | 40.51           | 29.86       | 87.42                 | -1,799.94                         | -193.17    | 3,097.99             | 3,029.15              | 68.85                   | 44.997            |                    |         |
| 10,100.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 41.78           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,140.94             | 3,071.27              | 69.68                   | 45.079            |                    |         |
| 10,200.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 43.10           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,186.43             | 3,115.89              | 70.55                   | 45.166            |                    |         |
| 10,300.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 44.49           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,234.38             | 3,162.96              | 71.42                   | 45.290            |                    |         |
| 10,400.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 45.92           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,284.67             | 3,212.40              | 72.27                   | 45.449            |                    |         |
| 10,500.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 47.39           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,337.20             | 3,264.09              | 73.11                   | 45.646            |                    |         |
| 10,600.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 48.91           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,391.86             | 3,317.93              | 73.93                   | 45.879            |                    |         |
| 10,700.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 50.47           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,448.56             | 3,373.83              | 74.73                   | 46.147            |                    |         |
| 10,800.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 52.06           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,507.19             | 3,431.69              | 75.51                   | 46.449            |                    |         |
| 10,900.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 53.68           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,567.67             | 3,491.41              | 76.26                   | 46.785            |                    |         |
| 11,000.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 55.32           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,629.89             | 3,552.91              | 76.98                   | 47.153            |                    |         |
| 11,100.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 57.00           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,693.77             | 3,616.09              | 77.68                   | 47.551            |                    |         |
| 11,200.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 58.70           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,759.22             | 3,680.87              | 78.35                   | 47.978            |                    |         |
| 11,300.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 60.41           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,826.17             | 3,747.18              | 79.00                   | 48.433            |                    |         |
| 11,400.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 62.15           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,894.54             | 3,814.92              | 79.62                   | 48.915            |                    |         |
| 11,500.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 63.91           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 3,964.25             | 3,884.04              | 80.21                   | 49.421            |                    |         |
| 11,600.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 65.69           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,035.24             | 3,954.45              | 80.78                   | 49.951            |                    |         |
| 11,700.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 67.47           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,107.43             | 4,026.10              | 81.33                   | 50.503            |                    |         |
| 11,800.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 69.28           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,180.77             | 4,098.91              | 81.85                   | 51.077            |                    |         |
| 11,900.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 71.09           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,255.19             | 4,172.84              | 82.35                   | 51.670            |                    |         |
| 12,000.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 72.92           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,330.65             | 4,247.81              | 82.83                   | 52.282            |                    |         |
| 12,100.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 74.76           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,407.08             | 4,323.79              | 83.29                   | 52.913            |                    |         |
| 12,200.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 76.61           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,484.44             | 4,400.71              | 83.73                   | 53.559            |                    |         |
| 12,300.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 78.47           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,562.68             | 4,478.53              | 84.15                   | 54.222            |                    |         |
| 12,400.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 80.34           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,641.75             | 4,557.20              | 84.55                   | 54.900            |                    |         |
| 12,500.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 82.22           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,721.62             | 4,636.69              | 84.93                   | 55.592            |                    |         |
| 12,600.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 84.11           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,802.24             | 4,716.94              | 85.30                   | 56.297            |                    |         |
| 12,700.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 86.00           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,883.58             | 4,797.93              | 85.66                   | 57.014            |                    |         |
| 12,800.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 87.90           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 4,965.60             | 4,879.61              | 85.99                   | 57.744            |                    |         |
| 12,900.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 89.81           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,048.27             | 4,961.96              | 86.32                   | 58.485            |                    |         |
| 13,000.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 91.72           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,131.56             | 5,044.93              | 86.63                   | 59.236            |                    |         |
| 13,100.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 93.64           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,215.43             | 5,128.51              | 86.93                   | 59.997            |                    |         |
| 13,200.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 95.56           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,299.87             | 5,212.65              | 87.21                   | 60.768            |                    |         |
| 13,300.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 97.49           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,384.83             | 5,297.34              | 87.49                   | 61.548            |                    |         |
| 13,400.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 99.42           | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,470.31             | 5,382.55              | 87.76                   | 62.336            |                    |         |
| 13,500.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 101.36          | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,556.27             | 5,468.26              | 88.01                   | 63.132            |                    |         |
| 13,600.00                    | 8,835.00            | 8,717.00            | 8,713.64            | 103.30          | 29.83       | 87.24                 | -1,799.59                         | -193.10    | 5,642.69             | 5,554.43              | 88.26                   | 63.935            |                    |         |
| 13,700.00                    | 8,835.00            | 8,705.95            | 8,702.59            | 105.25          | 29.79       | 87.01                 | -1,799.15                         | -193.01    | 5,729.54             | 5,641.09              | 88.44                   | 64.782            |                    |         |
| 13,800.00                    | 8,835.00            | 8,705.47            | 8,702.11            | 107.20          | 29.79       | 87.01                 | -1,799.13                         | -193.01    | 5,816.82             | 5,728.15              | 88.67                   | 65.601            |                    |         |
| 13,900.00                    | 8,835.00            | 8,704.99            | 8,701.63            | 109.15          | 29.79       | 87.00                 | -1,799.11                         | -193.01    | 5,904.51             | 5,815.62              | 88.89                   | 66.427            |                    |         |
| 14,000.00                    | 8,835.00            | 8,704.51            | 8,701.15            | 111.10          | 29.79       | 86.99                 | -1,799.10                         | -193.00    | 5,992.58             | 5,903.49              | 89.10                   | 67.259            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 336H - Wellbore #1 - Wellbore #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Site Error:</b> | 0.00 ft |
|---------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 438-MWD+HDGM                                                                            |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                               |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                           | Warning |
| Measured Depth (ft)                                                                                     | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor         |         |
| 14,100.00                                                                                               | 8,835.00            | 8,704.03            | 8,700.68            | 113.06          | 29.79       | 86.98                 | -1,799.08                         | -193.00    | 6,081.03             | 5,991.73              | 89.30                   | 68.096                    |         |
| 14,200.00                                                                                               | 8,835.00            | 8,703.56            | 8,700.21            | 115.03          | 29.78       | 86.97                 | -1,799.06                         | -193.00    | 6,169.82             | 6,080.33              | 89.50                   | 68.939                    |         |
| 14,300.00                                                                                               | 8,835.00            | 8,703.09            | 8,699.74            | 116.99          | 29.78       | 86.96                 | -1,799.04                         | -192.99    | 6,258.96             | 6,169.27              | 89.69                   | 69.787                    |         |
| 14,400.00                                                                                               | 8,835.00            | 8,702.62            | 8,699.27            | 118.96          | 29.78       | 86.95                 | -1,799.02                         | -192.99    | 6,348.41             | 6,258.54              | 89.87                   | 70.640                    |         |
| 14,500.00                                                                                               | 8,835.00            | 8,702.16            | 8,698.81            | 120.93          | 29.78       | 86.94                 | -1,799.01                         | -192.99    | 6,438.18             | 6,348.13              | 90.05                   | 71.497                    |         |
| 14,600.00                                                                                               | 8,835.00            | 8,701.69            | 8,698.34            | 122.90          | 29.78       | 86.93                 | -1,798.99                         | -192.98    | 6,528.25             | 6,438.03              | 90.22                   | 72.359                    |         |
| 14,700.00                                                                                               | 8,835.00            | 8,701.23            | 8,697.88            | 124.88          | 29.78       | 86.92                 | -1,798.97                         | -192.98    | 6,618.60             | 6,528.21              | 90.39                   | 73.225                    |         |
| 14,800.00                                                                                               | 8,835.00            | 8,700.78            | 8,697.43            | 126.86          | 29.77       | 86.91                 | -1,798.95                         | -192.98    | 6,709.22             | 6,618.67              | 90.55                   | 74.095                    |         |
| 14,900.00                                                                                               | 8,835.00            | 8,700.32            | 8,696.97            | 128.84          | 29.77       | 86.90                 | -1,798.94                         | -192.97    | 6,800.11             | 6,709.40              | 90.71                   | 74.968                    |         |
| 15,000.00                                                                                               | 8,835.00            | 8,699.87            | 8,696.52            | 130.82          | 29.77       | 86.89                 | -1,798.92                         | -192.97    | 6,891.24             | 6,800.38              | 90.86                   | 75.845                    |         |
| 15,100.00                                                                                               | 8,835.00            | 8,699.42            | 8,696.07            | 132.80          | 29.77       | 86.88                 | -1,798.90                         | -192.97    | 6,982.63             | 6,891.62              | 91.01                   | 76.725                    |         |
| 15,200.00                                                                                               | 8,835.00            | 8,698.97            | 8,695.62            | 134.79          | 29.77       | 86.87                 | -1,798.88                         | -192.96    | 7,074.24             | 6,983.09              | 91.15                   | 77.609                    |         |
| 15,300.00                                                                                               | 8,835.00            | 8,698.53            | 8,695.18            | 136.78          | 29.77       | 86.86                 | -1,798.87                         | -192.96    | 7,166.08             | 7,074.79              | 91.29                   | 78.495                    |         |
| 15,400.00                                                                                               | 8,835.00            | 8,698.08            | 8,694.73            | 138.76          | 29.76       | 86.85                 | -1,798.85                         | -192.96    | 7,258.13             | 7,166.70              | 91.43                   | 79.384                    |         |
| 15,500.00                                                                                               | 8,835.00            | 8,697.64            | 8,694.29            | 140.76          | 29.76       | 86.85                 | -1,798.83                         | -192.95    | 7,350.40             | 7,258.83              | 91.57                   | 80.275                    |         |
| 15,600.00                                                                                               | 8,835.00            | 8,697.20            | 8,693.85            | 142.75          | 29.76       | 86.84                 | -1,798.82                         | -192.95    | 7,442.86             | 7,351.16              | 91.70                   | 81.169                    |         |
| 15,700.00                                                                                               | 8,835.00            | 8,696.77            | 8,693.42            | 144.74          | 29.76       | 86.83                 | -1,798.80                         | -192.95    | 7,535.51             | 7,443.69              | 91.82                   | 82.065                    |         |
| 15,800.00                                                                                               | 8,835.00            | 8,696.33            | 8,692.98            | 146.74          | 29.76       | 86.82                 | -1,798.79                         | -192.94    | 7,628.35             | 7,536.40              | 91.95                   | 82.964                    |         |
| 15,900.00                                                                                               | 8,835.00            | 8,695.90            | 8,692.55            | 148.73          | 29.76       | 86.81                 | -1,798.77                         | -192.94    | 7,721.37             | 7,629.30              | 92.07                   | 83.864                    |         |
| 16,000.00                                                                                               | 8,835.00            | 8,695.47            | 8,692.12            | 150.73          | 29.76       | 86.80                 | -1,798.75                         | -192.94    | 7,814.56             | 7,722.37              | 92.19                   | 84.767                    |         |
| 16,100.00                                                                                               | 8,835.00            | 8,695.04            | 8,691.70            | 152.73          | 29.75       | 86.79                 | -1,798.74                         | -192.94    | 7,907.92             | 7,815.61              | 92.31                   | 85.671                    |         |
| 16,200.00                                                                                               | 8,835.00            | 8,694.62            | 8,691.27            | 154.73          | 29.75       | 86.78                 | -1,798.72                         | -192.93    | 8,001.44             | 7,909.02              | 92.42                   | 86.577                    |         |
| 16,300.00                                                                                               | 8,835.00            | 8,694.20            | 8,690.85            | 156.73          | 29.75       | 86.78                 | -1,798.71                         | -192.93    | 8,095.11             | 8,002.58              | 92.53                   | 87.484                    |         |
| 16,400.00                                                                                               | 8,835.00            | 8,693.78            | 8,690.43            | 158.74          | 29.75       | 86.77                 | -1,798.69                         | -192.93    | 8,188.93             | 8,096.29              | 92.64                   | 88.393                    |         |
| 16,500.00                                                                                               | 8,835.00            | 8,693.36            | 8,690.01            | 160.74          | 29.75       | 86.76                 | -1,798.67                         | -192.92    | 8,282.90             | 8,190.15              | 92.75                   | 89.303                    |         |
| 16,600.00                                                                                               | 8,835.00            | 8,692.94            | 8,689.59            | 162.74          | 29.75       | 86.75                 | -1,798.66                         | -192.92    | 8,377.00             | 8,284.15              | 92.86                   | 90.214                    |         |
| 16,700.00                                                                                               | 8,835.00            | 8,692.53            | 8,689.18            | 164.75          | 29.74       | 86.74                 | -1,798.64                         | -192.92    | 8,471.25             | 8,378.28              | 92.96                   | 91.127                    |         |
| 16,800.00                                                                                               | 8,835.00            | 8,692.11            | 8,688.77            | 166.76          | 29.74       | 86.73                 | -1,798.63                         | -192.92    | 8,565.62             | 8,472.55              | 93.06                   | 92.041                    |         |
| 16,900.00                                                                                               | 8,835.00            | 8,691.70            | 8,688.36            | 168.77          | 29.74       | 86.73                 | -1,798.61                         | -192.91    | 8,660.12             | 8,566.95              | 93.16                   | 92.955                    |         |
| 17,000.00                                                                                               | 8,835.00            | 8,691.30            | 8,687.95            | 170.77          | 29.74       | 86.72                 | -1,798.60                         | -192.91    | 8,754.74             | 8,661.47              | 93.26                   | 93.871                    |         |
| 17,100.00                                                                                               | 8,835.00            | 8,690.89            | 8,687.55            | 172.78          | 29.74       | 86.71                 | -1,798.58                         | -192.91    | 8,849.48             | 8,756.11              | 93.36                   | 94.787                    |         |
| 17,200.00                                                                                               | 8,835.00            | 8,690.49            | 8,687.14            | 174.79          | 29.74       | 86.70                 | -1,798.57                         | -192.90    | 8,944.33             | 8,850.87              | 93.46                   | 95.705                    |         |
| 17,300.00                                                                                               | 8,835.00            | 8,690.08            | 8,686.74            | 176.81          | 29.74       | 86.69                 | -1,798.55                         | -192.90    | 9,039.29             | 8,945.74              | 93.55                   | 96.622                    |         |
| 17,400.00                                                                                               | 8,835.00            | 8,689.68            | 8,686.34            | 178.82          | 29.73       | 86.68                 | -1,798.54                         | -192.90    | 9,134.36             | 9,040.72              | 93.65                   | 97.541                    |         |
| 17,500.00                                                                                               | 8,835.00            | 8,689.29            | 8,685.94            | 180.83          | 29.73       | 86.68                 | -1,798.52                         | -192.90    | 9,229.54             | 9,135.80              | 93.74                   | 98.460                    |         |
| 17,600.00                                                                                               | 8,835.00            | 8,688.89            | 8,685.55            | 182.84          | 29.73       | 86.67                 | -1,798.51                         | -192.89    | 9,324.82             | 9,230.99              | 93.83                   | 99.379                    |         |
| 17,700.00                                                                                               | 8,835.00            | 8,688.50            | 8,685.15            | 184.86          | 29.73       | 86.66                 | -1,798.50                         | -192.89    | 9,420.19             | 9,326.27              | 93.92                   | 100.299                   |         |
| 17,800.00                                                                                               | 8,835.00            | 8,688.10            | 8,684.76            | 186.87          | 29.73       | 86.65                 | -1,798.48                         | -192.89    | 9,515.66             | 9,421.65              | 94.01                   | 101.219                   |         |
| 17,900.00                                                                                               | 8,835.00            | 8,687.71            | 8,684.37            | 188.89          | 29.73       | 86.64                 | -1,798.47                         | -192.89    | 9,611.22             | 9,517.12              | 94.10                   | 102.140                   |         |
| 18,000.00                                                                                               | 8,835.00            | 8,687.33            | 8,683.98            | 190.91          | 29.73       | 86.64                 | -1,798.45                         | -192.88    | 9,706.87             | 9,612.69              | 94.19                   | 103.060                   |         |
| 18,100.00                                                                                               | 8,835.00            | 8,686.94            | 8,683.60            | 192.92          | 29.72       | 86.63                 | -1,798.44                         | -192.88    | 9,802.61             | 9,708.34              | 94.27                   | 103.981                   |         |
| 18,200.00                                                                                               | 8,835.00            | 8,686.56            | 8,683.21            | 194.94          | 29.72       | 86.62                 | -1,798.42                         | -192.88    | 9,898.43             | 9,804.08              | 94.36                   | 104.902                   |         |
| 18,300.00                                                                                               | 8,835.00            | 8,686.17            | 8,682.83            | 196.96          | 29.72       | 86.61                 | -1,798.41                         | -192.88    | 9,994.34             | 9,899.89              | 94.44                   | 105.823                   |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                       | 0.00                | 10.80               | 10.80               | 0.50            | 0.50        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             |                       |                         |                   |                    |         |
| 100.00                     | 100.00              | 110.80              | 110.80              | 0.52            | 0.53        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,527.64              | 1.05                    | 1,460.224         |                    |         |
| 200.00                     | 200.00              | 210.80              | 210.80              | 0.70            | 0.73        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,527.25              | 1.43                    | 1,067.588         |                    |         |
| 300.00                     | 300.00              | 310.80              | 310.80              | 0.99            | 1.02        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,526.68              | 2.01                    | 761.206           |                    |         |
| 400.00                     | 400.00              | 410.80              | 410.80              | 1.31            | 1.34        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,526.03              | 2.65                    | 575.985           |                    |         |
| 500.00                     | 500.00              | 510.80              | 510.80              | 1.65            | 1.68        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,525.36              | 3.33                    | 459.189           |                    |         |
| 600.00                     | 600.00              | 610.80              | 610.80              | 1.99            | 2.03        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,524.67              | 4.02                    | 380.393           |                    |         |
| 700.00                     | 700.00              | 710.80              | 710.80              | 2.34            | 2.38        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,523.97              | 4.72                    | 324.117           |                    |         |
| 800.00                     | 800.00              | 810.80              | 810.80              | 2.69            | 2.73        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,523.27              | 5.42                    | 282.085           |                    |         |
| 900.00                     | 900.00              | 910.80              | 910.80              | 3.04            | 3.08        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,522.56              | 6.13                    | 249.569           |                    |         |
| 1,000.00                   | 1,000.00            | 1,010.80            | 1,010.80            | 3.40            | 3.44        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,521.85              | 6.83                    | 223.701           |                    |         |
| 1,100.00                   | 1,100.00            | 1,110.80            | 1,110.80            | 3.75            | 3.79        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,521.14              | 7.54                    | 202.647           |                    |         |
| 1,200.00                   | 1,200.00            | 1,210.80            | 1,210.80            | 4.11            | 4.15        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,520.43              | 8.25                    | 185.189           |                    |         |
| 1,300.00                   | 1,300.00            | 1,310.80            | 1,310.80            | 4.46            | 4.50        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,519.72              | 8.97                    | 170.483           |                    |         |
| 1,400.00                   | 1,400.00            | 1,410.80            | 1,410.80            | 4.82            | 4.86        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,519.01              | 9.68                    | 157.928           |                    |         |
| 1,500.00                   | 1,500.00            | 1,510.80            | 1,510.80            | 5.18            | 5.22        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,518.29              | 10.39                   | 147.088           |                    |         |
| 1,600.00                   | 1,600.00            | 1,610.80            | 1,610.80            | 5.53            | 5.57        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,517.58              | 11.11                   | 137.635           |                    |         |
| 1,700.00                   | 1,700.00            | 1,710.80            | 1,710.80            | 5.89            | 5.93        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,516.87              | 11.82                   | 129.319           |                    |         |
| 1,800.00                   | 1,800.00            | 1,810.80            | 1,810.80            | 6.25            | 6.29        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,516.15              | 12.54                   | 121.948           |                    |         |
| 1,900.00                   | 1,900.00            | 1,910.80            | 1,910.80            | 6.61            | 6.64        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,515.44              | 13.25                   | 115.370           |                    |         |
| 2,000.00                   | 2,000.00            | 2,010.80            | 2,010.80            | 6.96            | 7.00        | -0.13                 | 1,528.68                          | -3.38      | 1,528.69             | 1,514.72              | 13.97                   | 109.463           |                    |         |
| 2,100.00                   | 2,099.99            | 2,110.79            | 2,110.79            | 7.32            | 7.36        | 12.66                 | 1,528.68                          | -3.38      | 1,527.84             | 1,513.16              | 14.68                   | 104.074           |                    |         |
| 2,200.00                   | 2,199.96            | 2,210.76            | 2,210.76            | 7.68            | 7.72        | 12.69                 | 1,528.68                          | -3.38      | 1,525.28             | 1,509.89              | 15.40                   | 99.075            |                    |         |
| 2,300.00                   | 2,299.86            | 2,310.66            | 2,310.66            | 8.04            | 8.07        | 12.73                 | 1,528.68                          | -3.38      | 1,521.03             | 1,504.92              | 16.11                   | 94.414            |                    |         |
| 2,400.00                   | 2,399.68            | 2,398.15            | 2,398.15            | 8.39            | 8.39        | 12.79                 | 1,528.68                          | -3.43      | 1,515.32             | 1,498.54              | 16.78                   | 90.305            |                    |         |
| 2,500.00                   | 2,499.37            | 2,477.64            | 2,477.63            | 8.75            | 8.67        | 12.84                 | 1,530.06                          | -3.74      | 1,509.15             | 1,491.73              | 17.42                   | 86.639            |                    |         |
| 2,600.00                   | 2,598.90            | 2,557.19            | 2,557.15            | 9.11            | 8.96        | 12.90                 | 1,532.31                          | -4.32      | 1,502.62             | 1,484.57              | 18.06                   | 83.222            |                    |         |
| 2,700.00                   | 2,698.26            | 2,636.80            | 2,636.68            | 9.46            | 9.24        | 12.96                 | 1,535.63                          | -5.19      | 1,495.74             | 1,477.05              | 18.69                   | 80.028            |                    |         |
| 2,800.00                   | 2,797.40            | 2,716.46            | 2,716.21            | 9.82            | 9.53        | 13.02                 | 1,540.02                          | -6.33      | 1,488.50             | 1,469.18              | 19.32                   | 77.033            |                    |         |
| 2,900.00                   | 2,896.30            | 2,796.18            | 2,795.73            | 10.18           | 9.81        | 13.09                 | 1,545.49                          | -7.75      | 1,480.91             | 1,460.96              | 19.95                   | 74.218            |                    |         |
| 3,000.00                   | 2,994.93            | 2,875.98            | 2,875.24            | 10.54           | 10.09       | 13.15                 | 1,552.03                          | -9.45      | 1,472.97             | 1,452.39              | 20.58                   | 71.564            |                    |         |
| 3,100.00                   | 3,093.26            | 2,955.84            | 2,954.71            | 10.90           | 10.38       | 13.22                 | 1,559.65                          | -11.43     | 1,464.68             | 1,443.47              | 21.21                   | 69.056            |                    |         |
| 3,195.07                   | 3,186.42            | 3,031.82            | 3,030.21            | 11.24           | 10.65       | 13.29                 | 1,567.90                          | -13.57     | 1,456.47             | 1,434.66              | 21.81                   | 66.794            |                    |         |
| 3,200.00                   | 3,191.25            | 3,035.77            | 3,034.13            | 11.26           | 10.67       | 13.30                 | 1,568.36                          | -13.69     | 1,456.04             | 1,434.20              | 21.84                   | 66.679            |                    |         |
| 3,300.00                   | 3,289.08            | 3,115.84            | 3,113.56            | 11.62           | 10.95       | 13.34                 | 1,578.15                          | -16.23     | 1,447.98             | 1,425.52              | 22.46                   | 64.465            |                    |         |
| 3,400.00                   | 3,386.91            | 3,196.07            | 3,193.00            | 11.98           | 11.24       | 13.38                 | 1,589.03                          | -19.06     | 1,441.27             | 1,418.18              | 23.09                   | 62.431            |                    |         |
| 3,500.00                   | 3,484.74            | 3,276.45            | 3,272.42            | 12.35           | 11.52       | 13.40                 | 1,601.02                          | -22.18     | 1,435.91             | 1,412.20              | 23.71                   | 60.563            |                    |         |
| 3,600.00                   | 3,582.58            | 3,356.93            | 3,351.75            | 12.72           | 11.81       | 13.42                 | 1,614.10                          | -25.58     | 1,431.90             | 1,407.57              | 24.33                   | 58.848            |                    |         |
| 3,700.00                   | 3,680.41            | 3,445.03            | 3,438.40            | 13.09           | 12.13       | 13.42                 | 1,629.53                          | -29.59     | 1,429.15             | 1,404.15              | 25.00                   | 57.175            |                    |         |
| 3,800.00                   | 3,778.24            | 3,545.00            | 3,536.68            | 13.46           | 12.49       | 13.42                 | 1,647.26                          | -34.20     | 1,426.65             | 1,400.92              | 25.73                   | 55.451            |                    |         |
| 3,900.00                   | 3,876.08            | 3,644.97            | 3,634.95            | 13.83           | 12.85       | 13.42                 | 1,664.99                          | -38.81     | 1,424.15             | 1,397.69              | 26.46                   | 53.817            |                    |         |
| 4,000.00                   | 3,973.91            | 3,744.94            | 3,733.23            | 14.21           | 13.21       | 13.42                 | 1,682.73                          | -43.41     | 1,421.65             | 1,394.45              | 27.20                   | 52.268            |                    |         |
| 4,100.00                   | 4,071.74            | 3,844.90            | 3,831.50            | 14.58           | 13.57       | 13.42                 | 1,700.46                          | -48.02     | 1,419.15             | 1,391.21              | 27.94                   | 50.798            |                    |         |
| 4,200.00                   | 4,169.57            | 3,944.87            | 3,929.78            | 14.96           | 13.94       | 13.42                 | 1,718.19                          | -52.63     | 1,416.65             | 1,387.97              | 28.68                   | 49.400            |                    |         |
| 4,300.00                   | 4,267.41            | 4,044.84            | 4,028.05            | 15.33           | 14.31       | 13.42                 | 1,735.93                          | -57.24     | 1,414.15             | 1,384.73              | 29.42                   | 48.070            |                    |         |
| 4,400.00                   | 4,365.24            | 4,144.81            | 4,126.33            | 15.71           | 14.67       | 13.42                 | 1,753.66                          | -61.85     | 1,411.65             | 1,381.49              | 30.16                   | 46.803            |                    |         |
| 4,500.00                   | 4,463.07            | 4,244.78            | 4,224.60            | 16.09           | 15.04       | 13.42                 | 1,771.40                          | -66.46     | 1,409.15             | 1,378.25              | 30.91                   | 45.595            |                    |         |
| 4,600.00                   | 4,560.90            | 4,344.75            | 4,322.88            | 16.47           | 15.41       | 13.42                 | 1,789.13                          | -71.07     | 1,406.65             | 1,375.00              | 31.65                   | 44.442            |                    |         |
| 4,700.00                   | 4,658.74            | 4,444.72            | 4,421.15            | 16.85           | 15.78       | 13.42                 | 1,806.86                          | -75.68     | 1,404.15             | 1,371.75              | 32.40                   | 43.340            |                    |         |
| 4,800.00                   | 4,756.57            | 4,544.69            | 4,519.43            | 17.23           | 16.15       | 13.42                 | 1,824.60                          | -80.28     | 1,401.65             | 1,368.51              | 33.15                   | 42.287            |                    |         |
| 4,900.00                   | 4,854.40            | 4,644.65            | 4,617.70            | 17.61           | 16.52       | 13.43                 | 1,842.33                          | -84.89     | 1,399.15             | 1,365.26              | 33.89                   | 41.279            |                    |         |
| 5,000.00                   | 4,952.23            | 4,744.62            | 4,715.98            | 17.99           | 16.89       | 13.43                 | 1,860.06                          | -89.50     | 1,396.65             | 1,362.01              | 34.64                   | 40.314            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                   | 5,050.07            | 4,844.59            | 4,814.25            | 18.37           | 17.27       | 13.43                 | 1,877.80                          | -94.11     | 1,394.15             | 1,358.76              | 35.40                   | 39.388            |                    |         |
| 5,200.00                   | 5,147.90            | 4,944.56            | 4,912.53            | 18.75           | 17.64       | 13.43                 | 1,895.53                          | -98.72     | 1,391.65             | 1,355.51              | 36.15                   | 38.500            |                    |         |
| 5,300.00                   | 5,245.73            | 5,044.53            | 5,010.80            | 19.14           | 18.01       | 13.43                 | 1,913.27                          | -103.33    | 1,389.15             | 1,352.26              | 36.90                   | 37.648            |                    |         |
| 5,400.00                   | 5,343.56            | 5,144.50            | 5,109.08            | 19.52           | 18.39       | 13.43                 | 1,931.00                          | -107.94    | 1,386.65             | 1,349.00              | 37.65                   | 36.828            |                    |         |
| 5,500.00                   | 5,441.40            | 5,244.47            | 5,207.35            | 19.90           | 18.76       | 13.43                 | 1,948.73                          | -112.55    | 1,384.15             | 1,345.75              | 38.41                   | 36.041            |                    |         |
| 5,600.00                   | 5,539.23            | 5,344.44            | 5,305.63            | 20.29           | 19.14       | 13.43                 | 1,966.47                          | -117.15    | 1,381.65             | 1,342.49              | 39.16                   | 35.282            |                    |         |
| 5,700.00                   | 5,637.06            | 5,444.40            | 5,403.90            | 20.67           | 19.51       | 13.43                 | 1,984.20                          | -121.76    | 1,379.15             | 1,339.24              | 39.91                   | 34.553            |                    |         |
| 5,800.00                   | 5,734.90            | 5,544.37            | 5,502.18            | 21.05           | 19.89       | 13.43                 | 2,001.94                          | -126.37    | 1,376.66             | 1,335.99              | 40.67                   | 33.849            |                    |         |
| 5,900.00                   | 5,832.73            | 5,644.34            | 5,600.46            | 21.44           | 20.26       | 13.43                 | 2,019.67                          | -130.98    | 1,374.16             | 1,332.73              | 41.43                   | 33.171            |                    |         |
| 6,000.00                   | 5,930.56            | 5,744.31            | 5,698.73            | 21.83           | 20.64       | 13.43                 | 2,037.40                          | -135.59    | 1,371.66             | 1,329.47              | 42.18                   | 32.517            |                    |         |
| 6,100.00                   | 6,028.39            | 5,844.28            | 5,797.01            | 22.21           | 21.02       | 13.43                 | 2,055.14                          | -140.20    | 1,369.16             | 1,326.22              | 42.94                   | 31.885            |                    |         |
| 6,200.00                   | 6,126.23            | 5,944.25            | 5,895.28            | 22.60           | 21.39       | 13.43                 | 2,072.87                          | -144.81    | 1,366.66             | 1,322.96              | 43.70                   | 31.276            |                    |         |
| 6,300.00                   | 6,224.06            | 6,044.22            | 5,993.56            | 22.98           | 21.77       | 13.43                 | 2,090.60                          | -149.42    | 1,364.16             | 1,319.70              | 44.46                   | 30.686            |                    |         |
| 6,400.00                   | 6,321.89            | 6,144.19            | 6,091.83            | 23.37           | 22.15       | 13.43                 | 2,108.34                          | -154.02    | 1,361.66             | 1,316.44              | 45.21                   | 30.116            |                    |         |
| 6,500.00                   | 6,419.72            | 6,244.15            | 6,190.11            | 23.76           | 22.53       | 13.43                 | 2,126.07                          | -158.63    | 1,359.16             | 1,313.18              | 45.97                   | 29.565            |                    |         |
| 6,600.00                   | 6,517.56            | 6,344.12            | 6,288.38            | 24.14           | 22.91       | 13.43                 | 2,143.81                          | -163.24    | 1,356.66             | 1,309.93              | 46.73                   | 29.031            |                    |         |
| 6,700.00                   | 6,615.39            | 6,444.09            | 6,386.66            | 24.53           | 23.28       | 13.43                 | 2,161.54                          | -167.85    | 1,354.16             | 1,306.67              | 47.49                   | 28.514            |                    |         |
| 6,800.00                   | 6,713.22            | 6,544.06            | 6,484.93            | 24.92           | 23.66       | 13.43                 | 2,179.27                          | -172.46    | 1,351.66             | 1,303.41              | 48.25                   | 28.013            |                    |         |
| 6,900.00                   | 6,811.05            | 6,644.03            | 6,583.21            | 25.30           | 24.04       | 13.43                 | 2,197.01                          | -177.07    | 1,349.16             | 1,300.15              | 49.01                   | 27.528            |                    |         |
| 7,000.00                   | 6,908.89            | 6,744.00            | 6,681.48            | 25.69           | 24.42       | 13.43                 | 2,214.74                          | -181.68    | 1,346.66             | 1,296.89              | 49.77                   | 27.057            |                    |         |
| 7,100.00                   | 7,006.72            | 6,843.97            | 6,779.76            | 26.08           | 24.80       | 13.43                 | 2,232.47                          | -186.29    | 1,344.16             | 1,293.63              | 50.53                   | 26.600            |                    |         |
| 7,200.00                   | 7,104.55            | 6,943.94            | 6,878.03            | 26.47           | 25.18       | 13.43                 | 2,250.21                          | -190.90    | 1,341.66             | 1,290.37              | 51.29                   | 26.157            |                    |         |
| 7,216.87                   | 7,121.05            | 6,960.80            | 6,894.61            | 26.53           | 25.24       | 13.43                 | 2,253.20                          | -191.67    | 1,341.24             | 1,289.82              | 51.42                   | 26.083            |                    |         |
| 7,300.00                   | 7,202.57            | 7,043.92            | 6,976.32            | 26.85           | 25.56       | 13.42                 | 2,267.95                          | -195.50    | 1,340.04             | 1,287.99              | 52.05                   | 25.744            |                    |         |
| 7,315.04                   | 7,217.35            | 7,058.96            | 6,991.11            | 26.91           | 25.62       | 13.42                 | 2,270.61                          | -196.20    | 1,340.01             | 1,287.84              | 52.17                   | 25.687 CC         |                    |         |
| 7,400.00                   | 7,301.06            | 7,143.91            | 7,074.62            | 27.23           | 25.94       | 13.39                 | 2,285.68                          | -200.11    | 1,340.93             | 1,288.12              | 52.81                   | 25.392            |                    |         |
| 7,500.00                   | 7,399.97            | 7,243.84            | 7,172.86            | 27.61           | 26.32       | 13.34                 | 2,303.41                          | -204.72    | 1,344.37             | 1,290.81              | 53.56                   | 25.100            |                    |         |
| 7,600.00                   | 7,499.23            | 7,343.64            | 7,270.96            | 27.98           | 26.70       | 13.28                 | 2,321.11                          | -209.32    | 1,350.35             | 1,296.05              | 54.30                   | 24.866            |                    |         |
| 7,700.00                   | 7,598.77            | 7,443.24            | 7,368.87            | 28.34           | 27.08       | 13.20                 | 2,338.78                          | -213.91    | 1,358.88             | 1,303.84              | 55.04                   | 24.688            |                    |         |
| 7,800.00                   | 7,698.53            | 7,558.57            | 7,482.30            | 28.70           | 27.52       | 13.08                 | 2,358.98                          | -219.16    | 1,369.78             | 1,313.92              | 55.86                   | 24.521            |                    |         |
| 7,900.00                   | 7,798.44            | 7,711.08            | 7,633.04            | 29.05           | 28.09       | 12.93                 | 2,381.37                          | -224.98    | 1,380.31             | 1,323.49              | 56.83                   | 24.290            |                    |         |
| 8,000.00                   | 7,898.42            | 7,864.43            | 7,785.42            | 29.39           | 28.65       | 12.80                 | 2,397.99                          | -229.30    | 1,389.54             | 1,331.83              | 57.71                   | 24.077            |                    |         |
| 8,013.58                   | 7,912.00            | 7,885.32            | 7,806.22            | 29.43           | 28.73       | 0.01                  | 2,399.79                          | -229.77    | 1,390.69             | 1,332.86              | 57.83                   | 24.050            |                    |         |
| 8,100.00                   | 7,998.42            | 8,018.62            | 7,939.20            | 29.73           | 29.20       | -0.09                 | 2,408.72                          | -232.09    | 1,396.48             | 1,337.96              | 58.52                   | 23.864            |                    |         |
| 8,200.00                   | 8,098.42            | 8,173.46            | 8,093.95            | 30.07           | 29.75       | -0.14                 | 2,413.45                          | -233.32    | 1,399.54             | 1,340.29              | 59.25                   | 23.623            |                    |         |
| 8,300.00                   | 8,198.42            | 8,288.74            | 8,209.22            | 30.41           | 30.15       | -0.14                 | 2,413.68                          | -233.38    | 1,399.69             | 1,339.75              | 59.93                   | 23.354            |                    |         |
| 8,363.62                   | 8,262.04            | 8,352.35            | 8,272.84            | 30.62           | 30.36       | -0.14                 | 2,413.68                          | -233.38    | 1,399.69             | 1,339.31              | 60.37                   | 23.184            |                    |         |
| 8,400.00                   | 8,298.40            | 8,388.71            | 8,309.20            | 30.75           | 30.49       | -89.84                | 2,413.68                          | -233.38    | 1,399.68             | 1,339.06              | 60.62                   | 23.090            |                    |         |
| 8,439.07                   | 8,337.27            | 8,427.59            | 8,348.07            | 30.87           | 30.62       | -90.00                | 2,413.68                          | -233.38    | 1,399.68             | 1,338.80              | 60.88                   | 22.991            |                    |         |
| 8,450.00                   | 8,348.10            | 8,438.41            | 8,358.90            | 30.91           | 30.66       | -90.06                | 2,413.68                          | -233.38    | 1,399.68             | 1,338.73              | 60.95                   | 22.964            |                    |         |
| 8,500.00                   | 8,397.14            | 8,487.45            | 8,407.94            | 31.07           | 30.83       | -90.45                | 2,413.68                          | -233.38    | 1,399.72             | 1,338.44              | 61.28                   | 22.842            |                    |         |
| 8,550.00                   | 8,445.15            | 8,535.47            | 8,455.95            | 31.23           | 31.00       | -90.97                | 2,413.68                          | -233.38    | 1,399.90             | 1,338.30              | 61.60                   | 22.726            |                    |         |
| 8,600.00                   | 8,491.77            | 8,583.35            | 8,503.83            | 31.38           | 31.16       | -91.63                | 2,413.68                          | -233.13    | 1,400.34             | 1,338.43              | 61.91                   | 22.619            |                    |         |
| 8,650.00                   | 8,536.65            | 8,634.39            | 8,554.72            | 31.52           | 31.33       | -92.34                | 2,413.71                          | -229.37    | 1,401.03             | 1,338.83              | 62.20                   | 22.525            |                    |         |
| 8,700.00                   | 8,579.43            | 8,687.40            | 8,606.99            | 31.66           | 31.50       | -93.05                | 2,413.76                          | -220.68    | 1,401.97             | 1,339.49              | 62.48                   | 22.440            |                    |         |
| 8,750.00                   | 8,619.80            | 8,742.57            | 8,660.30            | 31.80           | 31.68       | -93.75                | 2,413.84                          | -206.56    | 1,403.12             | 1,340.38              | 62.74                   | 22.365            |                    |         |
| 8,800.00                   | 8,657.44            | 8,800.11            | 8,714.18            | 31.93           | 31.86       | -94.44                | 2,413.96                          | -186.43    | 1,404.47             | 1,341.48              | 62.99                   | 22.298            |                    |         |
| 8,850.00                   | 8,692.08            | 8,860.21            | 8,768.01            | 32.06           | 32.04       | -95.12                | 2,414.12                          | -159.76    | 1,405.97             | 1,342.75              | 63.22                   | 22.240            |                    |         |
| 8,900.00                   | 8,723.44            | 8,923.04            | 8,820.97            | 32.19           | 32.22       | -95.77                | 2,414.32                          | -126.01    | 1,407.57             | 1,344.13              | 63.44                   | 22.188            |                    |         |
| 8,950.00                   | 8,751.29            | 8,988.73            | 8,872.04            | 32.34           | 32.40       | -96.40                | 2,414.57                          | -84.76     | 1,409.21             | 1,345.55              | 63.66                   | 22.137            |                    |         |
| 9,000.00                   | 8,775.42            | 9,057.31            | 8,919.95            | 32.50           | 32.59       | -96.98                | 2,414.86                          | -35.75     | 1,410.83             | 1,346.94              | 63.89                   | 22.083            |                    |         |
| 9,050.00                   | 8,795.64            | 9,128.74            | 8,963.26            | 32.67           | 32.80       | -97.50                | 2,415.20                          | 21.00      | 1,412.34             | 1,348.19              | 64.15                   | 22.017            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                |                |                |                 |        |                   |                        |            |                 |                  |                    |                   | Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 621H - Wellbore #1 - Permit Plan 1 |  | Offset Site Error: |  | 0.00 ft |
|----------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|--------------------|-------------------|--------------------------------------------------------------------------------------|--|--------------------|--|---------|
| Survey Program: 0-MWD+IFR1 |                |                |                |                 |        |                   |                        |            |                 |                  |                    |                   |                                                                                      |  | Offset Well Error: |  | 0.50 ft |
| Reference                  |                | Offset         |                | Semi Major Axis |        |                   | Distance               |            |                 |                  |                    |                   |                                                                                      |  |                    |  |         |
| Measured Depth             | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre |            | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | Warning                                                                              |  |                    |  |         |
| (ft)                       | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft) | (ft)            | (ft)             | (ft)               |                   |                                                                                      |  |                    |  |         |
| 9,100.00                   | 8,811.80       | 9,202.84       | 9,000.37       | 32.87           | 33.05  | -97.95            | 2,415.58               | 85.07      | 1,413.67        | 1,349.21         | 64.46              | 21.930            |                                                                                      |  |                    |  |         |
| 9,150.00                   | 8,823.77       | 9,279.25       | 9,029.66       | 33.10           | 33.35  | -98.30            | 2,416.00               | 155.59     | 1,414.76        | 1,349.89         | 64.86              | 21.811            |                                                                                      |  |                    |  |         |
| 9,200.00                   | 8,831.47       | 9,357.49       | 9,049.65       | 33.34           | 33.69  | -98.55            | 2,416.45               | 231.16     | 1,415.52        | 1,350.16         | 65.37              | 21.656            |                                                                                      |  |                    |  |         |
| 9,250.00                   | 8,834.84       | 9,436.90       | 9,059.23       | 33.60           | 34.09  | -98.68            | 2,416.92               | 309.92     | 1,415.93        | 1,349.94         | 65.99              | 21.457            |                                                                                      |  |                    |  |         |
| 9,263.62                   | 8,835.00       | 9,458.63       | 9,059.94       | 33.67           | 34.21  | -98.70            | 2,417.05               | 331.65     | 1,415.97        | 1,349.79         | 66.18              | 21.397            |                                                                                      |  |                    |  |         |
| 9,300.00                   | 8,835.00       | 9,502.02       | 9,060.00       | 33.88           | 34.45  | -98.70            | 2,417.28               | 370.99     | 1,415.97        | 1,349.35         | 66.62              | 21.253            |                                                                                      |  |                    |  |         |
| 9,400.00                   | 8,835.00       | 9,597.98       | 9,060.00       | 34.53           | 35.07  | -98.70            | 2,417.88               | 470.99     | 1,415.97        | 1,348.10         | 67.87              | 20.862            |                                                                                      |  |                    |  |         |
| 9,500.00                   | 8,835.00       | 9,702.02       | 9,060.00       | 35.30           | 35.85  | -98.70            | 2,418.48               | 570.98     | 1,415.97        | 1,346.58         | 69.39              | 20.405            |                                                                                      |  |                    |  |         |
| 9,600.00                   | 8,835.00       | 9,802.02       | 9,060.00       | 36.17           | 36.70  | -98.70            | 2,419.07               | 670.98     | 1,415.97        | 1,344.89         | 71.09              | 19.919            |                                                                                      |  |                    |  |         |
| 9,700.00                   | 8,835.00       | 9,902.02       | 9,060.00       | 37.13           | 37.65  | -98.70            | 2,419.67               | 770.98     | 1,415.97        | 1,343.01         | 72.96              | 19.407            |                                                                                      |  |                    |  |         |
| 9,800.00                   | 8,835.00       | 10,002.02      | 9,060.00       | 38.18           | 38.69  | -98.70            | 2,420.26               | 870.98     | 1,415.97        | 1,340.96         | 75.01              | 18.877            |                                                                                      |  |                    |  |         |
| 9,900.00                   | 8,835.00       | 10,102.02      | 9,060.00       | 39.31           | 39.80  | -98.70            | 2,420.86               | 970.98     | 1,415.97        | 1,338.75         | 77.22              | 18.337            |                                                                                      |  |                    |  |         |
| 10,000.00                  | 8,835.00       | 10,202.02      | 9,060.00       | 40.51           | 40.98  | -98.70            | 2,421.46               | 1,070.98   | 1,415.97        | 1,336.40         | 79.57              | 17.795            |                                                                                      |  |                    |  |         |
| 10,100.00                  | 8,835.00       | 10,302.02      | 9,060.00       | 41.78           | 42.24  | -98.70            | 2,422.05               | 1,170.97   | 1,415.97        | 1,333.92         | 82.06              | 17.256            |                                                                                      |  |                    |  |         |
| 10,200.00                  | 8,835.00       | 10,402.02      | 9,060.00       | 43.10           | 43.55  | -98.70            | 2,422.65               | 1,270.97   | 1,415.97        | 1,331.31         | 84.66              | 16.725            |                                                                                      |  |                    |  |         |
| 10,300.00                  | 8,835.00       | 10,502.02      | 9,060.00       | 44.49           | 44.91  | -98.70            | 2,423.24               | 1,370.97   | 1,415.97        | 1,328.59         | 87.38              | 16.205            |                                                                                      |  |                    |  |         |
| 10,400.00                  | 8,835.00       | 10,602.02      | 9,060.00       | 45.92           | 46.33  | -98.70            | 2,423.84               | 1,470.97   | 1,415.97        | 1,325.78         | 90.20              | 15.699            |                                                                                      |  |                    |  |         |
| 10,500.00                  | 8,835.00       | 10,697.98      | 9,060.00       | 47.39           | 47.73  | -98.70            | 2,424.44               | 1,570.97   | 1,415.97        | 1,322.93         | 93.04              | 15.218            |                                                                                      |  |                    |  |         |
| 10,600.00                  | 8,835.00       | 10,797.98      | 9,060.00       | 48.91           | 49.24  | -98.70            | 2,425.03               | 1,670.97   | 1,415.97        | 1,319.94         | 96.03              | 14.745            |                                                                                      |  |                    |  |         |
| 10,700.00                  | 8,835.00       | 10,902.02      | 9,060.00       | 50.47           | 50.84  | -98.70            | 2,425.63               | 1,770.96   | 1,415.97        | 1,316.81         | 99.16              | 14.280            |                                                                                      |  |                    |  |         |
| 10,800.00                  | 8,835.00       | 10,997.98      | 9,060.00       | 52.06           | 52.35  | -98.70            | 2,426.22               | 1,870.96   | 1,415.97        | 1,313.74         | 102.23             | 13.851            |                                                                                      |  |                    |  |         |
| 10,900.00                  | 8,835.00       | 11,102.02      | 9,060.00       | 53.68           | 54.03  | -98.70            | 2,426.82               | 1,970.96   | 1,415.97        | 1,310.48         | 105.49             | 13.423            |                                                                                      |  |                    |  |         |
| 11,000.00                  | 8,835.00       | 11,197.98      | 9,060.00       | 55.32           | 55.60  | -98.70            | 2,427.41               | 2,070.96   | 1,415.97        | 1,307.29         | 108.68             | 13.029            |                                                                                      |  |                    |  |         |
| 11,100.00                  | 8,835.00       | 11,302.02      | 9,060.00       | 57.00           | 57.33  | -98.70            | 2,428.01               | 2,170.96   | 1,415.97        | 1,303.92         | 112.05             | 12.637            |                                                                                      |  |                    |  |         |
| 11,200.00                  | 8,835.00       | 11,402.02      | 9,060.00       | 58.70           | 59.01  | -98.70            | 2,428.61               | 2,270.95   | 1,415.97        | 1,300.57         | 115.40             | 12.270            |                                                                                      |  |                    |  |         |
| 11,300.00                  | 8,835.00       | 11,502.02      | 9,060.00       | 60.41           | 60.72  | -98.70            | 2,429.20               | 2,370.95   | 1,415.97        | 1,297.17         | 118.80             | 11.919            |                                                                                      |  |                    |  |         |
| 11,400.00                  | 8,835.00       | 11,602.02      | 9,060.00       | 62.15           | 62.45  | -98.70            | 2,429.80               | 2,470.95   | 1,415.97        | 1,293.74         | 122.24             | 11.584            |                                                                                      |  |                    |  |         |
| 11,500.00                  | 8,835.00       | 11,702.02      | 9,060.00       | 63.91           | 64.20  | -98.70            | 2,430.39               | 2,570.95   | 1,415.97        | 1,290.26         | 125.71             | 11.264            |                                                                                      |  |                    |  |         |
| 11,600.00                  | 8,835.00       | 11,802.02      | 9,060.00       | 65.69           | 65.97  | -98.70            | 2,430.99               | 2,670.95   | 1,415.97        | 1,286.76         | 129.22             | 10.958            |                                                                                      |  |                    |  |         |
| 11,700.00                  | 8,835.00       | 11,902.02      | 9,060.00       | 67.47           | 67.75  | -98.70            | 2,431.59               | 2,770.95   | 1,415.97        | 1,283.22         | 132.75             | 10.666            |                                                                                      |  |                    |  |         |
| 11,800.00                  | 8,835.00       | 11,997.98      | 9,060.00       | 69.28           | 69.47  | -98.70            | 2,432.18               | 2,870.94   | 1,415.97        | 1,279.73         | 136.25             | 10.393            |                                                                                      |  |                    |  |         |
| 11,900.00                  | 8,835.00       | 12,102.02      | 9,060.00       | 71.09           | 71.35  | -98.70            | 2,432.78               | 2,970.94   | 1,415.97        | 1,276.06         | 139.91             | 10.120            |                                                                                      |  |                    |  |         |
| 12,000.00                  | 8,835.00       | 12,202.02      | 9,060.00       | 72.92           | 73.17  | -98.70            | 2,433.37               | 3,070.94   | 1,415.97        | 1,272.44         | 143.53             | 9.865             |                                                                                      |  |                    |  |         |
| 12,100.00                  | 8,835.00       | 12,297.98      | 9,060.00       | 74.76           | 74.93  | -98.70            | 2,433.97               | 3,170.94   | 1,415.97        | 1,268.88         | 147.09             | 9.626             |                                                                                      |  |                    |  |         |
| 12,200.00                  | 8,835.00       | 12,402.02      | 9,060.00       | 76.61           | 76.85  | -98.70            | 2,434.57               | 3,270.94   | 1,415.97        | 1,265.14         | 150.83             | 9.388             |                                                                                      |  |                    |  |         |
| 12,300.00                  | 8,835.00       | 12,502.02      | 9,060.00       | 78.47           | 78.70  | -98.70            | 2,435.16               | 3,370.94   | 1,415.97        | 1,261.46         | 154.51             | 9.164             |                                                                                      |  |                    |  |         |
| 12,400.00                  | 8,835.00       | 12,602.02      | 9,060.00       | 80.34           | 80.57  | -98.70            | 2,435.76               | 3,470.93   | 1,415.97        | 1,257.77         | 158.21             | 8.950             |                                                                                      |  |                    |  |         |
| 12,500.00                  | 8,835.00       | 12,702.02      | 9,060.00       | 82.22           | 82.44  | -98.70            | 2,436.35               | 3,570.93   | 1,415.97        | 1,254.05         | 161.92             | 8.745             |                                                                                      |  |                    |  |         |
| 12,600.00                  | 8,835.00       | 12,802.02      | 9,060.00       | 84.11           | 84.32  | -98.70            | 2,436.95               | 3,670.93   | 1,415.97        | 1,250.32         | 165.65             | 8.548             |                                                                                      |  |                    |  |         |
| 12,700.00                  | 8,835.00       | 12,902.02      | 9,060.00       | 86.00           | 86.21  | -98.70            | 2,437.54               | 3,770.93   | 1,415.97        | 1,246.57         | 169.40             | 8.359             |                                                                                      |  |                    |  |         |
| 12,800.00                  | 8,835.00       | 13,002.02      | 9,060.00       | 87.90           | 88.10  | -98.70            | 2,438.14               | 3,870.93   | 1,415.97        | 1,242.82         | 173.16             | 8.177             |                                                                                      |  |                    |  |         |
| 12,900.00                  | 8,835.00       | 13,102.02      | 9,060.00       | 89.81           | 90.00  | -98.70            | 2,438.74               | 3,970.92   | 1,415.97        | 1,239.04         | 176.93             | 8.003             |                                                                                      |  |                    |  |         |
| 13,000.00                  | 8,835.00       | 13,202.02      | 9,060.00       | 91.72           | 91.91  | -98.70            | 2,439.33               | 4,070.92   | 1,415.97        | 1,235.26         | 180.71             | 7.835             |                                                                                      |  |                    |  |         |
| 13,100.00                  | 8,835.00       | 13,302.03      | 9,060.00       | 93.64           | 93.83  | -98.70            | 2,439.93               | 4,170.92   | 1,415.97        | 1,231.46         | 184.51             | 7.674             |                                                                                      |  |                    |  |         |
| 13,200.00                  | 8,835.00       | 13,402.03      | 9,060.00       | 95.56           | 95.74  | -98.70            | 2,440.52               | 4,270.92   | 1,415.97        | 1,227.66         | 188.31             | 7.519             |                                                                                      |  |                    |  |         |
| 13,300.00                  | 8,835.00       | 13,502.03      | 9,060.00       | 97.49           | 97.67  | -98.70            | 2,441.12               | 4,370.92   | 1,415.97        | 1,223.84         | 192.13             | 7.370             |                                                                                      |  |                    |  |         |
| 13,400.00                  | 8,835.00       | 13,602.03      | 9,060.00       | 99.42           | 99.60  | -98.70            | 2,441.72               | 4,470.92   | 1,415.97        | 1,220.02         | 195.96             | 7.226             |                                                                                      |  |                    |  |         |
| 13,500.00                  | 8,835.00       | 13,702.03      | 9,060.00       | 101.36          | 101.53 | -98.70            | 2,442.31               | 4,570.91   | 1,415.97        | 1,216.18         | 199.79             | 7.087             |                                                                                      |  |                    |  |         |
| 13,600.00                  | 8,835.00       | 13,802.03      | 9,060.00       | 103.30          | 103.47 | -98.70            | 2,442.91               | 4,670.91   | 1,415.97        | 1,212.34         | 203.63             | 6.954             |                                                                                      |  |                    |  |         |
| 13,700.00                  | 8,835.00       | 13,902.03      | 9,060.00       | 105.25          | 105.41 | -98.70            | 2,443.50               | 4,770.91   | 1,415.97        | 1,208.49         | 207.48             | 6.825             |                                                                                      |  |                    |  |         |
| 13,800.00                  | 8,835.00       | 14,002.03      | 9,060.00       | 107.20          | 107.36 | -98.70            | 2,444.10               | 4,870.91   | 1,415.97        | 1,204.63         | 211.34             | 6.700             |                                                                                      |  |                    |  |         |
| 13,900.00                  | 8,835.00       | 14,097.98      | 9,060.00       | 109.15          | 109.23 | -98.70            | 2,444.70               | 4,970.91   | 1,415.97        | 1,200.84         | 215.13             | 6.582             |                                                                                      |  |                    |  |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |         | Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 621H - Wellbore #1 - Permit Plan 1 |  | Offset Site Error: |  | 0.00 ft |
|----------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|---------|--------------------------------------------------------------------------------------|--|--------------------|--|---------|
| Survey Program: 0-MWD+IFR1 |                |                |                |                 |        |                   |                        |                 |                  |                    |                   |         |                                                                                      |  | Offset Well Error: |  | 0.50 ft |
| Reference                  |                | Offset         |                | Semi Major Axis |        |                   | Distance               |                 |                  |                    |                   |         |                                                                                      |  |                    |  |         |
| Measured Depth             | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | Warning |                                                                                      |  |                    |  |         |
| (ft)                       | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft)      | (ft)             | (ft)               | (ft)              |         |                                                                                      |  |                    |  |         |
| 14,000.00                  | 8,835.00       | 14,202.03      | 9,060.00       | 111.10          | 111.26 | -98.70            | 2,445.29               | 5,070.90        | 1,415.97         | 1,196.89           | 219.08            | 6.463   |                                                                                      |  |                    |  |         |
| 14,100.00                  | 8,835.00       | 14,302.03      | 9,060.00       | 113.06          | 113.22 | -98.70            | 2,445.89               | 5,170.90        | 1,415.97         | 1,193.02           | 222.96            | 6.351   |                                                                                      |  |                    |  |         |
| 14,200.00                  | 8,835.00       | 14,402.03      | 9,060.00       | 115.03          | 115.18 | -98.70            | 2,446.48               | 5,270.90        | 1,415.97         | 1,189.13           | 226.84            | 6.242   |                                                                                      |  |                    |  |         |
| 14,300.00                  | 8,835.00       | 14,502.03      | 9,060.00       | 116.99          | 117.14 | -98.70            | 2,447.08               | 5,370.90        | 1,415.97         | 1,185.24           | 230.73            | 6.137   |                                                                                      |  |                    |  |         |
| 14,400.00                  | 8,835.00       | 14,602.03      | 9,060.00       | 118.96          | 119.10 | -98.70            | 2,447.67               | 5,470.90        | 1,415.97         | 1,181.35           | 234.63            | 6.035   |                                                                                      |  |                    |  |         |
| 14,500.00                  | 8,835.00       | 14,702.03      | 9,060.00       | 120.93          | 121.07 | -98.70            | 2,448.27               | 5,570.90        | 1,415.97         | 1,177.44           | 238.53            | 5.936   |                                                                                      |  |                    |  |         |
| 14,600.00                  | 8,835.00       | 14,802.03      | 9,060.00       | 122.90          | 123.04 | -98.70            | 2,448.87               | 5,670.89        | 1,415.97         | 1,173.54           | 242.43            | 5.841   |                                                                                      |  |                    |  |         |
| 14,700.00                  | 8,835.00       | 14,902.03      | 9,060.00       | 124.88          | 125.01 | -98.70            | 2,449.46               | 5,770.89        | 1,415.97         | 1,169.63           | 246.34            | 5.748   |                                                                                      |  |                    |  |         |
| 14,800.00                  | 8,835.00       | 15,002.03      | 9,060.00       | 126.86          | 126.99 | -98.70            | 2,450.06               | 5,870.89        | 1,415.97         | 1,165.71           | 250.26            | 5.658   |                                                                                      |  |                    |  |         |
| 14,900.00                  | 8,835.00       | 15,102.03      | 9,060.00       | 128.84          | 128.97 | -98.70            | 2,450.65               | 5,970.89        | 1,415.97         | 1,161.80           | 254.18            | 5.571   |                                                                                      |  |                    |  |         |
| 15,000.00                  | 8,835.00       | 15,202.03      | 9,060.00       | 130.82          | 130.95 | -98.70            | 2,451.25               | 6,070.89        | 1,415.97         | 1,157.87           | 258.10            | 5.486   |                                                                                      |  |                    |  |         |
| 15,100.00                  | 8,835.00       | 15,302.03      | 9,060.00       | 132.80          | 132.93 | -98.70            | 2,451.85               | 6,170.89        | 1,415.97         | 1,153.95           | 262.03            | 5.404   |                                                                                      |  |                    |  |         |
| 15,200.00                  | 8,835.00       | 15,402.03      | 9,060.00       | 134.79          | 134.91 | -98.70            | 2,452.44               | 6,270.88        | 1,415.97         | 1,150.01           | 265.96            | 5.324   |                                                                                      |  |                    |  |         |
| 15,300.00                  | 8,835.00       | 15,502.03      | 9,060.00       | 136.78          | 136.90 | -98.70            | 2,453.04               | 6,370.88        | 1,415.97         | 1,146.08           | 269.89            | 5.246   |                                                                                      |  |                    |  |         |
| 15,400.00                  | 8,835.00       | 15,602.03      | 9,060.00       | 138.76          | 138.88 | -98.70            | 2,453.63               | 6,470.88        | 1,415.97         | 1,142.14           | 273.83            | 5.171   |                                                                                      |  |                    |  |         |
| 15,500.00                  | 8,835.00       | 15,702.03      | 9,060.00       | 140.76          | 140.87 | -98.70            | 2,454.23               | 6,570.88        | 1,415.97         | 1,138.20           | 277.77            | 5.098   |                                                                                      |  |                    |  |         |
| 15,600.00                  | 8,835.00       | 15,802.03      | 9,060.00       | 142.75          | 142.86 | -98.70            | 2,454.83               | 6,670.88        | 1,415.97         | 1,134.26           | 281.71            | 5.026   |                                                                                      |  |                    |  |         |
| 15,700.00                  | 8,835.00       | 15,902.03      | 9,060.00       | 144.74          | 144.86 | -98.70            | 2,455.42               | 6,770.87        | 1,415.97         | 1,130.31           | 285.66            | 4.957   | Alert                                                                                |  |                    |  |         |
| 15,800.00                  | 8,835.00       | 16,002.03      | 9,060.00       | 146.74          | 146.85 | -98.70            | 2,456.02               | 6,870.87        | 1,415.97         | 1,126.36           | 289.61            | 4.889   | Alert                                                                                |  |                    |  |         |
| 15,900.00                  | 8,835.00       | 16,102.03      | 9,060.00       | 148.73          | 148.84 | -98.70            | 2,456.61               | 6,970.87        | 1,415.97         | 1,122.41           | 293.56            | 4.823   | Alert                                                                                |  |                    |  |         |
| 16,000.00                  | 8,835.00       | 16,202.03      | 9,060.00       | 150.73          | 150.84 | -98.70            | 2,457.21               | 7,070.87        | 1,415.97         | 1,118.45           | 297.52            | 4.759   | Alert                                                                                |  |                    |  |         |
| 16,100.00                  | 8,835.00       | 16,302.03      | 9,060.00       | 152.73          | 152.84 | -98.70            | 2,457.80               | 7,170.87        | 1,415.97         | 1,114.50           | 301.48            | 4.697   | Alert                                                                                |  |                    |  |         |
| 16,200.00                  | 8,835.00       | 16,402.03      | 9,060.00       | 154.73          | 154.84 | -98.70            | 2,458.40               | 7,270.87        | 1,415.97         | 1,110.54           | 305.44            | 4.636   | Alert                                                                                |  |                    |  |         |
| 16,300.00                  | 8,835.00       | 16,502.03      | 9,060.00       | 156.73          | 156.84 | -98.70            | 2,459.00               | 7,370.86        | 1,415.97         | 1,106.57           | 309.40            | 4.577   | Alert                                                                                |  |                    |  |         |
| 16,400.00                  | 8,835.00       | 16,602.03      | 9,060.00       | 158.74          | 158.84 | -98.70            | 2,459.59               | 7,470.86        | 1,415.97         | 1,102.61           | 313.36            | 4.519   | Alert                                                                                |  |                    |  |         |
| 16,500.00                  | 8,835.00       | 16,702.03      | 9,060.00       | 160.74          | 160.84 | -98.70            | 2,460.19               | 7,570.86        | 1,415.97         | 1,098.64           | 317.33            | 4.462   | Alert                                                                                |  |                    |  |         |
| 16,600.00                  | 8,835.00       | 16,802.03      | 9,060.00       | 162.74          | 162.85 | -98.70            | 2,460.78               | 7,670.86        | 1,415.97         | 1,094.67           | 321.30            | 4.407   | Alert                                                                                |  |                    |  |         |
| 16,700.00                  | 8,835.00       | 16,902.03      | 9,060.00       | 164.75          | 164.85 | -98.70            | 2,461.38               | 7,770.86        | 1,415.97         | 1,090.70           | 325.27            | 4.353   | Alert                                                                                |  |                    |  |         |
| 16,800.00                  | 8,835.00       | 17,002.03      | 9,060.00       | 166.76          | 166.86 | -98.70            | 2,461.98               | 7,870.86        | 1,415.97         | 1,086.73           | 329.24            | 4.301   | Alert                                                                                |  |                    |  |         |
| 16,900.00                  | 8,835.00       | 17,102.03      | 9,060.00       | 168.77          | 168.86 | -98.70            | 2,462.57               | 7,970.85        | 1,415.97         | 1,082.75           | 333.22            | 4.249   | Alert                                                                                |  |                    |  |         |
| 17,000.00                  | 8,835.00       | 17,202.03      | 9,060.00       | 170.77          | 170.87 | -98.70            | 2,463.17               | 8,070.85        | 1,415.97         | 1,078.78           | 337.19            | 4.199   | Alert                                                                                |  |                    |  |         |
| 17,100.00                  | 8,835.00       | 17,302.03      | 9,060.00       | 172.78          | 172.88 | -98.70            | 2,463.76               | 8,170.85        | 1,415.97         | 1,074.80           | 341.17            | 4.150   | Alert                                                                                |  |                    |  |         |
| 17,200.00                  | 8,835.00       | 17,402.03      | 9,060.00       | 174.79          | 174.89 | -98.70            | 2,464.36               | 8,270.85        | 1,415.97         | 1,070.82           | 345.15            | 4.102   | Alert                                                                                |  |                    |  |         |
| 17,300.00                  | 8,835.00       | 17,502.03      | 9,060.00       | 176.81          | 176.90 | -98.70            | 2,464.96               | 8,370.85        | 1,415.97         | 1,066.84           | 349.13            | 4.056   | Alert                                                                                |  |                    |  |         |
| 17,400.00                  | 8,835.00       | 17,602.03      | 9,060.00       | 178.82          | 178.91 | -98.70            | 2,465.55               | 8,470.84        | 1,415.97         | 1,062.85           | 353.12            | 4.010   | Alert                                                                                |  |                    |  |         |
| 17,500.00                  | 8,835.00       | 17,702.03      | 9,060.00       | 180.83          | 180.92 | -98.70            | 2,466.15               | 8,570.84        | 1,415.97         | 1,058.87           | 357.10            | 3.965   | Alert                                                                                |  |                    |  |         |
| 17,600.00                  | 8,835.00       | 17,802.03      | 9,060.00       | 182.84          | 182.93 | -98.70            | 2,466.74               | 8,670.84        | 1,415.97         | 1,054.88           | 361.09            | 3.921   | Alert                                                                                |  |                    |  |         |
| 17,700.00                  | 8,835.00       | 17,902.03      | 9,060.00       | 184.86          | 184.95 | -98.70            | 2,467.34               | 8,770.84        | 1,415.97         | 1,050.89           | 365.08            | 3.879   | Alert                                                                                |  |                    |  |         |
| 17,800.00                  | 8,835.00       | 18,002.03      | 9,060.00       | 186.87          | 186.96 | -98.70            | 2,467.94               | 8,870.84        | 1,415.97         | 1,046.91           | 369.07            | 3.837   | Alert                                                                                |  |                    |  |         |
| 17,900.00                  | 8,835.00       | 18,102.03      | 9,060.00       | 188.89          | 188.97 | -98.70            | 2,468.53               | 8,970.84        | 1,415.97         | 1,042.92           | 373.06            | 3.796   | Alert                                                                                |  |                    |  |         |
| 18,000.00                  | 8,835.00       | 18,202.03      | 9,060.00       | 190.91          | 190.99 | -98.70            | 2,469.13               | 9,070.83        | 1,415.97         | 1,038.92           | 377.05            | 3.755   | Alert                                                                                |  |                    |  |         |
| 18,100.00                  | 8,835.00       | 18,302.03      | 9,060.00       | 192.92          | 193.01 | -98.70            | 2,469.72               | 9,170.83        | 1,415.97         | 1,034.93           | 381.04            | 3.716   | Alert                                                                                |  |                    |  |         |
| 18,200.00                  | 8,835.00       | 18,402.03      | 9,060.00       | 194.94          | 195.02 | -98.70            | 2,470.32               | 9,270.83        | 1,415.97         | 1,030.94           | 385.03            | 3.678   | Alert                                                                                |  |                    |  |         |
| 18,300.00                  | 8,835.00       | 18,502.03      | 9,060.00       | 196.96          | 197.04 | -98.70            | 2,470.91               | 9,370.83        | 1,415.97         | 1,026.94           | 389.03            | 3.640   | Alert                                                                                |  |                    |  |         |
| 18,400.00                  | 8,835.00       | 18,602.03      | 9,060.00       | 198.98          | 199.06 | -98.70            | 2,471.51               | 9,470.83        | 1,415.97         | 1,022.94           | 393.03            | 3.603   | Alert                                                                                |  |                    |  |         |
| 18,500.00                  | 8,835.00       | 18,702.03      | 9,060.00       | 201.00          | 201.08 | -98.70            | 2,472.11               | 9,570.83        | 1,415.97         | 1,018.95           | 397.02            | 3.566   | Alert                                                                                |  |                    |  |         |
| 18,600.00                  | 8,835.00       | 18,802.03      | 9,060.00       | 203.02          | 203.10 | -98.70            | 2,472.70               | 9,670.82        | 1,415.97         | 1,014.95           | 401.02            | 3.531   | Alert                                                                                |  |                    |  |         |
| 18,700.00                  | 8,835.00       | 18,902.03      | 9,060.00       | 205.04          | 205.11 | -98.70            | 2,473.30               | 9,770.82        | 1,415.97         | 1,010.95           | 405.02            | 3.496   | Alert                                                                                |  |                    |  |         |
| 18,800.00                  | 8,835.00       | 19,002.03      | 9,060.00       | 207.06          | 207.13 | -98.70            | 2,473.89               | 9,870.82        | 1,415.97         | 1,006.95           | 409.02            | 3.462   | Alert                                                                                |  |                    |  |         |
| 18,900.00                  | 8,835.00       | 19,102.03      | 9,060.00       | 209.08          | 209.16 | -98.70            | 2,474.49               | 9,970.82        | 1,415.97         | 1,002.95           | 413.02            | 3.428   | Alert                                                                                |  |                    |  |         |
| 19,000.00                  | 8,835.00       | 19,202.03      | 9,060.00       | 211.10          | 211.18 | -98.70            | 2,475.09               | 10,070.82       | 1,415.97         | 998.94             | 417.03            | 3.395   | Alert                                                                                |  |                    |  |         |
| 19,100.00                  | 8,835.00       | 19,302.03      | 9,060.00       | 213.12          | 213.20 | -98.70            | 2,475.68               | 10,170.81       | 1,415.97         | 994.94             | 421.03            | 3.363   | Alert                                                                                |  |                    |  |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b>       |                        | Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 621H - Wellbore #1 - Permit Plan 1 |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Site Error:</b> | 0.00 ft       |
|----------------------------|------------------------|--------------------------------------------------------------------------------------|------------------------|-------------------|----------------|--------------------------|-----------------------------------------|---------------|-------------------------|--------------------------|----------------------------|---------------------------|---------------|
| Survey Program: 0-MWD+IFR1 |                        |                                                                                      |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Well Error:</b> | 0.50 ft       |
| Reference                  |                        | Offset                                                                               |                        | Semi Major Axis   |                |                          | Distance                                |               |                         |                          |                            |                           | Warning       |
| Measured Depth<br>(ft)     | Vertical Depth<br>(ft) | Measured Depth<br>(ft)                                                               | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between Centres<br>(ft) | Between Ellipses<br>(ft) | Minimum Separation<br>(ft) | Separation Factor         |               |
| 19,200.00                  | 8,835.00               | 19,402.03                                                                            | 9,060.00               | 215.15            | 215.22         | -98.70                   | 2,476.28                                | 10,270.81     | 1,415.97                | 990.94                   | 425.03                     | 3.331                     | Alert         |
| 19,308.27                  | 8,835.00               | 19,506.25                                                                            | 9,060.00               | 217.34            | 217.33         | -98.70                   | 2,476.92                                | 10,379.08     | 1,415.97                | 986.68                   | 429.29                     | 3.298                     | Alert, ES, SF |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                     | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                     | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                     |                    | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor   |                    |         |
| 0.00                       | 0.00                | 0.90                | -0.90               | 0.50            | 0.50        | 179.89                | -59.98                            | 0.11       | 59.98                |                       |                         |                     |                    |         |
| 100.00                     | 100.00              | 100.90              | 99.10               | 0.52            | 0.52        | 179.89                | -59.98                            | 0.11       | 59.98                | 58.94                 | 1.04                    | 57.876              |                    |         |
| 200.00                     | 200.00              | 200.90              | 199.10              | 0.70            | 0.70        | 179.89                | -59.98                            | 0.11       | 59.98                | 58.57                 | 1.41                    | 42.646              |                    |         |
| 300.00                     | 300.00              | 300.90              | 299.10              | 0.99            | 0.99        | 179.89                | -59.98                            | 0.11       | 59.98                | 58.00                 | 1.98                    | 30.332              |                    |         |
| 400.00                     | 400.00              | 400.90              | 399.10              | 1.31            | 1.31        | 179.89                | -59.98                            | 0.11       | 59.98                | 57.36                 | 2.62                    | 22.883              |                    |         |
| 500.00                     | 500.00              | 500.90              | 499.10              | 1.65            | 1.65        | 179.89                | -59.98                            | 0.11       | 59.98                | 56.68                 | 3.30                    | 18.202              |                    |         |
| 600.00                     | 600.00              | 600.90              | 599.10              | 1.99            | 1.99        | 179.89                | -59.98                            | 0.11       | 59.98                | 56.00                 | 3.98                    | 15.054              |                    |         |
| 700.00                     | 700.00              | 700.90              | 699.10              | 2.34            | 2.34        | 179.89                | -59.98                            | 0.11       | 59.98                | 55.30                 | 4.68                    | 12.811              |                    |         |
| 800.00                     | 800.00              | 800.90              | 799.10              | 2.69            | 2.69        | 179.89                | -59.98                            | 0.11       | 59.98                | 54.60                 | 5.38                    | 11.140              |                    |         |
| 900.00                     | 900.00              | 900.90              | 899.10              | 3.04            | 3.05        | 179.89                | -59.98                            | 0.11       | 59.98                | 53.89                 | 6.09                    | 9.849               |                    |         |
| 1,000.00                   | 1,000.00            | 1,000.90            | 999.10              | 3.40            | 3.40        | 179.89                | -59.98                            | 0.11       | 59.98                | 53.18                 | 6.80                    | 8.823               |                    |         |
| 1,100.00                   | 1,100.00            | 1,100.90            | 1,099.10            | 3.75            | 3.76        | 179.89                | -59.98                            | 0.11       | 59.98                | 52.47                 | 7.51                    | 7.988               |                    |         |
| 1,200.00                   | 1,200.00            | 1,200.90            | 1,199.10            | 4.11            | 4.11        | 179.89                | -59.98                            | 0.11       | 59.98                | 51.76                 | 8.22                    | 7.297               |                    |         |
| 1,300.00                   | 1,300.00            | 1,300.90            | 1,299.10            | 4.46            | 4.47        | 179.89                | -59.98                            | 0.11       | 59.98                | 51.05                 | 8.93                    | 6.716               |                    |         |
| 1,400.00                   | 1,400.00            | 1,400.90            | 1,399.10            | 4.82            | 4.82        | 179.89                | -59.98                            | 0.11       | 59.98                | 50.34                 | 9.64                    | 6.219               |                    |         |
| 1,500.00                   | 1,500.00            | 1,500.90            | 1,499.10            | 5.18            | 5.18        | 179.89                | -59.98                            | 0.11       | 59.98                | 49.62                 | 10.36                   | 5.791               |                    |         |
| 1,600.00                   | 1,600.00            | 1,600.90            | 1,599.10            | 5.53            | 5.54        | 179.89                | -59.98                            | 0.11       | 59.98                | 48.91                 | 11.07                   | 5.418               |                    |         |
| 1,700.00                   | 1,700.00            | 1,700.90            | 1,699.10            | 5.89            | 5.89        | 179.89                | -59.98                            | 0.11       | 59.98                | 48.19                 | 11.79                   | 5.089               |                    |         |
| 1,800.00                   | 1,800.00            | 1,800.90            | 1,799.10            | 6.25            | 6.25        | 179.89                | -59.98                            | 0.11       | 59.98                | 47.48                 | 12.50                   | 4.798 Alert         |                    |         |
| 1,900.00                   | 1,900.00            | 1,900.90            | 1,899.10            | 6.61            | 6.61        | 179.89                | -59.98                            | 0.11       | 59.98                | 46.77                 | 13.21                   | 4.539 Alert         |                    |         |
| 2,000.00                   | 2,000.00            | 2,000.90            | 1,999.10            | 6.96            | 6.97        | 179.89                | -59.98                            | 0.11       | 59.98                | 46.05                 | 13.93                   | 4.306 Alert, CC, ES |                    |         |
| 2,100.00                   | 2,099.99            | 2,100.91            | 2,099.09            | 7.32            | 7.32        | -167.50               | -59.98                            | 0.11       | 60.83                | 46.19                 | 14.64                   | 4.154 Alert         |                    |         |
| 2,200.00                   | 2,199.96            | 2,200.94            | 2,199.06            | 7.68            | 7.68        | -168.01               | -59.98                            | 0.11       | 63.39                | 48.03                 | 15.36                   | 4.127 Alert         |                    |         |
| 2,300.00                   | 2,299.86            | 2,301.04            | 2,298.96            | 8.04            | 8.04        | -168.77               | -59.98                            | 0.11       | 67.66                | 51.59                 | 16.08                   | 4.209 Alert         |                    |         |
| 2,400.00                   | 2,399.68            | 2,401.22            | 2,398.78            | 8.39            | 8.40        | -169.68               | -59.98                            | 0.11       | 73.66                | 56.87                 | 16.79                   | 4.387 Alert         |                    |         |
| 2,500.00                   | 2,499.37            | 2,498.47            | 2,498.47            | 8.75            | 8.75        | -170.66               | -59.98                            | 0.11       | 81.39                | 63.90                 | 17.50                   | 4.652 Alert         |                    |         |
| 2,600.00                   | 2,598.90            | 2,596.79            | 2,596.79            | 9.11            | 9.08        | -171.29               | -60.66                            | -0.35      | 91.51                | 73.33                 | 18.19                   | 5.032               |                    |         |
| 2,700.00                   | 2,698.26            | 2,694.61            | 2,694.57            | 9.46            | 9.40        | -171.35               | -62.72                            | -1.74      | 104.69               | 85.83                 | 18.86                   | 5.551               |                    |         |
| 2,800.00                   | 2,797.40            | 2,791.78            | 2,791.65            | 9.82            | 9.72        | -171.02               | -66.13                            | -4.05      | 120.89               | 101.37                | 19.53                   | 6.191               |                    |         |
| 2,900.00                   | 2,896.30            | 2,888.17            | 2,887.87            | 10.18           | 10.04       | -170.45               | -70.87                            | -7.25      | 140.11               | 119.92                | 20.19                   | 6.941               |                    |         |
| 3,000.00                   | 2,994.93            | 2,984.51            | 2,983.95            | 10.54           | 10.36       | -169.78               | -76.83                            | -11.29     | 162.23               | 141.37                | 20.85                   | 7.780               |                    |         |
| 3,100.00                   | 3,093.26            | 3,081.57            | 3,080.71            | 10.90           | 10.69       | -169.30               | -83.07                            | -15.51     | 186.26               | 164.73                | 21.53                   | 8.651               |                    |         |
| 3,195.07                   | 3,186.42            | 3,173.45            | 3,172.31            | 11.24           | 10.99       | -169.02               | -88.98                            | -19.51     | 210.65               | 188.47                | 22.18                   | 9.499               |                    |         |
| 3,200.00                   | 3,191.25            | 3,178.21            | 3,177.06            | 11.26           | 11.01       | -169.01               | -89.28                            | -19.71     | 211.95               | 189.74                | 22.21                   | 9.543               |                    |         |
| 3,300.00                   | 3,289.08            | 3,274.65            | 3,273.21            | 11.62           | 11.34       | -168.86               | -95.49                            | -23.91     | 238.40               | 215.51                | 22.89                   | 10.416              |                    |         |
| 3,400.00                   | 3,386.91            | 3,371.09            | 3,369.35            | 11.98           | 11.66       | -168.73               | -101.69                           | -28.10     | 264.85               | 241.28                | 23.57                   | 11.237              |                    |         |
| 3,500.00                   | 3,484.74            | 3,467.52            | 3,465.50            | 12.35           | 11.99       | -168.63               | -107.89                           | -32.30     | 291.30               | 267.04                | 24.25                   | 12.011              |                    |         |
| 3,600.00                   | 3,582.58            | 3,563.96            | 3,561.65            | 12.72           | 12.32       | -168.55               | -114.09                           | -36.50     | 317.75               | 292.81                | 24.94                   | 12.741              |                    |         |
| 3,700.00                   | 3,680.41            | 3,660.40            | 3,657.79            | 13.09           | 12.65       | -168.48               | -120.30                           | -40.69     | 344.20               | 318.57                | 25.63                   | 13.431              |                    |         |
| 3,800.00                   | 3,778.24            | 3,756.84            | 3,753.94            | 13.46           | 12.99       | -168.42               | -126.50                           | -44.89     | 370.65               | 344.33                | 26.32                   | 14.083              |                    |         |
| 3,900.00                   | 3,876.08            | 3,853.28            | 3,850.09            | 13.83           | 13.32       | -168.37               | -132.70                           | -49.08     | 397.10               | 370.09                | 27.01                   | 14.702              |                    |         |
| 4,000.00                   | 3,973.91            | 3,949.71            | 3,946.23            | 14.21           | 13.66       | -168.32               | -138.90                           | -53.28     | 423.55               | 395.84                | 27.70                   | 15.288              |                    |         |
| 4,100.00                   | 4,071.74            | 4,046.15            | 4,042.38            | 14.58           | 13.99       | -168.28               | -145.10                           | -57.47     | 450.00               | 421.60                | 28.40                   | 15.845              |                    |         |
| 4,200.00                   | 4,169.57            | 4,142.59            | 4,138.53            | 14.96           | 14.33       | -168.24               | -151.31                           | -61.67     | 476.45               | 447.35                | 29.10                   | 16.374              |                    |         |
| 4,300.00                   | 4,267.41            | 4,239.03            | 4,234.67            | 15.33           | 14.67       | -168.21               | -157.51                           | -65.87     | 502.90               | 473.10                | 29.80                   | 16.877              |                    |         |
| 4,400.00                   | 4,365.24            | 4,335.46            | 4,330.82            | 15.71           | 15.00       | -168.18               | -163.71                           | -70.06     | 529.35               | 498.85                | 30.50                   | 17.357              |                    |         |
| 4,500.00                   | 4,463.07            | 4,431.90            | 4,426.97            | 16.09           | 15.34       | -168.16               | -169.91                           | -74.26     | 555.80               | 524.60                | 31.20                   | 17.814              |                    |         |
| 4,600.00                   | 4,560.90            | 4,528.34            | 4,523.11            | 16.47           | 15.68       | -168.13               | -176.12                           | -78.45     | 582.25               | 550.35                | 31.90                   | 18.251              |                    |         |
| 4,700.00                   | 4,658.74            | 4,624.78            | 4,619.26            | 16.85           | 16.02       | -168.11               | -182.32                           | -82.65     | 608.71               | 576.10                | 32.61                   | 18.668              |                    |         |
| 4,800.00                   | 4,756.57            | 4,721.22            | 4,715.41            | 17.23           | 16.36       | -168.09               | -188.52                           | -86.84     | 635.16               | 601.85                | 33.31                   | 19.067              |                    |         |
| 4,900.00                   | 4,854.40            | 4,817.65            | 4,811.55            | 17.61           | 16.70       | -168.07               | -194.72                           | -91.04     | 661.61               | 627.59                | 34.02                   | 19.449              |                    |         |
| 5,000.00                   | 4,952.23            | 4,914.09            | 4,907.70            | 17.99           | 17.05       | -168.06               | -200.92                           | -95.23     | 688.06               | 653.34                | 34.72                   | 19.815              |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                   | 5,050.07            | 5,010.53            | 5,003.85            | 18.37           | 17.39       | -168.04               | -207.13                           | -99.43     | 714.51               | 679.08                | 35.43                   | 20.165            |                    |         |
| 5,200.00                   | 5,147.90            | 5,106.97            | 5,099.99            | 18.75           | 17.73       | -168.03               | -213.33                           | -103.63    | 740.97               | 704.83                | 36.14                   | 20.502            |                    |         |
| 5,300.00                   | 5,245.73            | 5,203.41            | 5,196.14            | 19.14           | 18.07       | -168.01               | -219.53                           | -107.82    | 767.42               | 730.57                | 36.85                   | 20.825            |                    |         |
| 5,400.00                   | 5,343.56            | 5,300.16            | 5,292.29            | 19.52           | 18.42       | -168.00               | -225.73                           | -112.02    | 793.87               | 756.31                | 37.56                   | 21.135            |                    |         |
| 5,500.00                   | 5,441.40            | 5,403.72            | 5,388.43            | 19.90           | 18.79       | -167.99               | -231.93                           | -116.21    | 820.32               | 782.02                | 38.30                   | 21.419            |                    |         |
| 5,600.00                   | 5,539.23            | 5,507.28            | 5,484.58            | 20.29           | 19.16       | -167.98               | -238.14                           | -120.41    | 846.78               | 807.74                | 39.04                   | 21.692            |                    |         |
| 5,700.00                   | 5,637.06            | 5,589.16            | 5,580.73            | 20.67           | 19.45       | -167.97               | -244.34                           | -124.60    | 873.23               | 833.53                | 39.70                   | 21.998            |                    |         |
| 5,800.00                   | 5,734.90            | 5,685.59            | 5,676.87            | 21.05           | 19.79       | -167.96               | -250.54                           | -128.80    | 899.68               | 859.27                | 40.41                   | 22.264            |                    |         |
| 5,900.00                   | 5,832.73            | 5,782.03            | 5,773.02            | 21.44           | 20.14       | -167.95               | -256.74                           | -132.99    | 926.13               | 885.01                | 41.12                   | 22.521            |                    |         |
| 6,000.00                   | 5,930.56            | 5,878.47            | 5,869.17            | 21.83           | 20.48       | -167.94               | -262.95                           | -137.19    | 952.58               | 910.75                | 41.84                   | 22.769            |                    |         |
| 6,100.00                   | 6,028.39            | 5,974.91            | 5,965.31            | 22.21           | 20.83       | -167.93               | -269.15                           | -141.39    | 979.04               | 936.48                | 42.55                   | 23.008            |                    |         |
| 6,200.00                   | 6,126.23            | 6,071.35            | 6,061.46            | 22.60           | 21.18       | -167.92               | -275.35                           | -145.58    | 1,005.49             | 962.22                | 43.27                   | 23.239            |                    |         |
| 6,300.00                   | 6,224.06            | 6,167.78            | 6,157.61            | 22.98           | 21.52       | -167.92               | -281.55                           | -149.78    | 1,031.94             | 987.96                | 43.98                   | 23.462            |                    |         |
| 6,400.00                   | 6,321.89            | 6,264.22            | 6,253.75            | 23.37           | 21.87       | -167.91               | -287.75                           | -153.97    | 1,058.39             | 1,013.69              | 44.70                   | 23.678            |                    |         |
| 6,500.00                   | 6,419.72            | 6,360.66            | 6,349.90            | 23.76           | 22.22       | -167.90               | -293.96                           | -158.17    | 1,084.85             | 1,039.43              | 45.42                   | 23.887            |                    |         |
| 6,600.00                   | 6,517.56            | 6,457.10            | 6,446.05            | 24.14           | 22.56       | -167.90               | -300.16                           | -162.36    | 1,111.30             | 1,065.17              | 46.13                   | 24.089            |                    |         |
| 6,700.00                   | 6,615.39            | 6,553.53            | 6,542.19            | 24.53           | 22.91       | -167.89               | -306.36                           | -166.56    | 1,137.75             | 1,090.90              | 46.85                   | 24.285            |                    |         |
| 6,800.00                   | 6,713.22            | 6,649.97            | 6,638.34            | 24.92           | 23.26       | -167.88               | -312.56                           | -170.76    | 1,164.20             | 1,116.63              | 47.57                   | 24.474            |                    |         |
| 6,900.00                   | 6,811.05            | 6,746.41            | 6,734.49            | 25.30           | 23.60       | -167.88               | -318.77                           | -174.95    | 1,190.66             | 1,142.37              | 48.29                   | 24.658            |                    |         |
| 7,000.00                   | 6,908.89            | 6,842.85            | 6,830.63            | 25.69           | 23.95       | -167.87               | -324.97                           | -179.15    | 1,217.11             | 1,168.10              | 49.01                   | 24.836            |                    |         |
| 7,100.00                   | 7,006.72            | 6,939.29            | 6,926.78            | 26.08           | 24.30       | -167.87               | -331.17                           | -183.34    | 1,243.56             | 1,193.84              | 49.73                   | 25.009            |                    |         |
| 7,200.00                   | 7,104.55            | 7,035.72            | 7,022.93            | 26.47           | 24.65       | -167.86               | -337.37                           | -187.54    | 1,270.01             | 1,219.57              | 50.44                   | 25.176            |                    |         |
| 7,216.87                   | 7,121.05            | 7,051.99            | 7,039.14            | 26.53           | 24.71       | -167.86               | -338.42                           | -188.25    | 1,274.48             | 1,223.91              | 50.57                   | 25.204            |                    |         |
| 7,300.00                   | 7,202.57            | 7,132.39            | 7,119.30            | 26.85           | 25.00       | -167.92               | -343.59                           | -191.74    | 1,295.61             | 1,244.45              | 51.16                   | 25.323            |                    |         |
| 7,400.00                   | 7,301.06            | 7,229.67            | 7,216.28            | 27.23           | 25.35       | -167.96               | -349.84                           | -195.98    | 1,318.76             | 1,266.88              | 51.88                   | 25.418            |                    |         |
| 7,500.00                   | 7,399.97            | 7,327.50            | 7,313.82            | 27.61           | 25.70       | -167.96               | -356.14                           | -200.23    | 1,339.42             | 1,286.81              | 52.60                   | 25.463            |                    |         |
| 7,600.00                   | 7,499.23            | 7,425.82            | 7,411.84            | 27.98           | 26.06       | -167.94               | -362.46                           | -204.51    | 1,357.56             | 1,304.24              | 53.32                   | 25.461            |                    |         |
| 7,700.00                   | 7,598.77            | 7,524.56            | 7,510.28            | 28.34           | 26.41       | -167.88               | -368.81                           | -208.80    | 1,373.18             | 1,319.15              | 54.03                   | 25.413            |                    |         |
| 7,800.00                   | 7,698.53            | 7,623.65            | 7,609.08            | 28.70           | 26.77       | -167.80               | -375.18                           | -213.12    | 1,386.28             | 1,331.53              | 54.75                   | 25.322            |                    |         |
| 7,900.00                   | 7,798.44            | 7,723.02            | 7,708.15            | 29.05           | 27.13       | -167.69               | -381.57                           | -217.44    | 1,396.84             | 1,341.39              | 55.45                   | 25.189            |                    |         |
| 8,000.00                   | 7,898.42            | 7,822.62            | 7,807.44            | 29.39           | 27.49       | -167.55               | -387.98                           | -221.77    | 1,404.87             | 1,348.71              | 56.16                   | 25.016            |                    |         |
| 8,013.58                   | 7,912.00            | 7,836.15            | 7,820.94            | 29.43           | 27.54       | 179.69                | -388.85                           | -222.36    | 1,405.76             | 1,349.51              | 56.25                   | 24.990            |                    |         |
| 8,100.00                   | 7,998.42            | 7,949.43            | 7,933.95            | 29.73           | 27.95       | 179.87                | -395.28                           | -226.71    | 1,410.72             | 1,353.68              | 57.04                   | 24.731            |                    |         |
| 8,200.00                   | 8,098.42            | 8,093.45            | 8,077.87            | 30.07           | 28.47       | 179.98                | -399.53                           | -229.59    | 1,413.67             | 1,355.66              | 58.01                   | 24.371            |                    |         |
| 8,300.00                   | 8,198.42            | 8,213.11            | 8,197.52            | 30.41           | 28.88       | 180.00                | -399.98                           | -229.89    | 1,413.98             | 1,355.19              | 58.80                   | 24.049            |                    |         |
| 8,363.62                   | 8,262.04            | 8,276.73            | 8,261.14            | 30.62           | 29.09       | 180.00                | -399.98                           | -229.89    | 1,413.98             | 1,354.75              | 59.23                   | 23.873            |                    |         |
| 8,400.00                   | 8,298.40            | 8,313.08            | 8,297.50            | 30.75           | 29.21       | 90.38                 | -399.98                           | -229.89    | 1,413.99             | 1,354.51              | 59.48                   | 23.774            |                    |         |
| 8,450.00                   | 8,348.10            | 8,362.78            | 8,347.20            | 30.91           | 29.38       | 90.59                 | -399.98                           | -229.89    | 1,414.03             | 1,354.23              | 59.81                   | 23.643            |                    |         |
| 8,500.00                   | 8,397.14            | 8,411.82            | 8,396.24            | 31.07           | 29.55       | 90.96                 | -399.98                           | -229.89    | 1,414.17             | 1,354.03              | 60.14                   | 23.516            |                    |         |
| 8,550.00                   | 8,445.15            | 8,459.84            | 8,444.25            | 31.23           | 29.71       | 91.47                 | -399.98                           | -229.89    | 1,414.48             | 1,354.01              | 60.46                   | 23.395            |                    |         |
| 8,600.00                   | 8,491.77            | 8,506.46            | 8,490.87            | 31.38           | 29.87       | 92.09                 | -399.98                           | -229.89    | 1,415.08             | 1,354.30              | 60.78                   | 23.282            |                    |         |
| 8,650.00                   | 8,536.65            | 8,558.87            | 8,543.21            | 31.52           | 30.04       | 92.85                 | -399.95                           | -227.60    | 1,416.01             | 1,354.88              | 61.13                   | 23.165            |                    |         |
| 8,700.00                   | 8,579.43            | 8,613.76            | 8,597.56            | 31.66           | 30.23       | 93.61                 | -399.87                           | -220.09    | 1,417.19             | 1,355.70              | 61.48                   | 23.051            |                    |         |
| 8,750.00                   | 8,619.80            | 8,671.24            | 8,653.44            | 31.80           | 30.41       | 94.36                 | -399.72                           | -206.69    | 1,418.57             | 1,356.73              | 61.84                   | 22.939            |                    |         |
| 8,800.00                   | 8,657.44            | 8,731.58            | 8,710.33            | 31.93           | 30.60       | 95.11                 | -399.50                           | -186.68    | 1,420.13             | 1,357.93              | 62.20                   | 22.831            |                    |         |
| 8,850.00                   | 8,692.08            | 8,795.00            | 8,767.51            | 32.06           | 30.79       | 95.84                 | -399.20                           | -159.33    | 1,421.81             | 1,359.25              | 62.56                   | 22.726            |                    |         |
| 8,900.00                   | 8,723.44            | 8,861.70            | 8,824.01            | 32.19           | 30.98       | 96.54                 | -398.81                           | -123.93    | 1,423.53             | 1,360.61              | 62.92                   | 22.624            |                    |         |
| 8,950.00                   | 8,751.29            | 8,931.81            | 8,878.52            | 32.34           | 31.18       | 97.21                 | -398.33                           | -79.92     | 1,425.23             | 1,361.94              | 63.28                   | 22.521            |                    |         |
| 9,000.00                   | 8,775.42            | 9,005.32            | 8,929.47            | 32.50           | 31.39       | 97.81                 | -397.75                           | -27.00     | 1,426.80             | 1,363.14              | 63.66                   | 22.413            |                    |         |
| 9,050.00                   | 8,795.64            | 9,082.06            | 8,974.97            | 32.67           | 31.63       | 98.34                 | -397.07                           | 34.73      | 1,428.16             | 1,364.09              | 64.07                   | 22.291            |                    |         |
| 9,100.00                   | 8,811.80            | 9,161.66            | 9,013.01            | 32.87           | 31.92       | 98.77                 | -396.30                           | 104.57     | 1,429.21             | 1,364.68              | 64.53                   | 22.149            |                    |         |
| 9,150.00                   | 8,823.77            | 9,243.53            | 9,041.66            | 33.10           | 32.26       | 99.09                 | -395.46                           | 181.18     | 1,429.88             | 1,364.82              | 65.07                   | 21.976            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 623H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Site Error:</b> | 0.00 ft |
|-----------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 0-MWD+IFR1                                                                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                           | Warning |
| Measured Depth (ft)                                                                                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor         |         |
| 9,200.00                                                                                                  | 8,831.47            | 9,326.85            | 9,059.31            | 33.34           | 32.67       | 99.26                 | -394.56                           | 262.53     | 1,430.11             | 1,364.41              | 65.70                   | 21.769                    |         |
| 9,250.00                                                                                                  | 8,834.84            | 9,409.45            | 9,065.00            | 33.60           | 33.11       | 99.29                 | -393.65                           | 344.86     | 1,429.87             | 1,363.46              | 66.41                   | 21.532                    |         |
| 9,263.62                                                                                                  | 8,835.00            | 9,423.07            | 9,065.00            | 33.67           | 33.20       | 99.29                 | -393.50                           | 358.48     | 1,429.77             | 1,363.20              | 66.57                   | 21.478                    |         |
| 9,300.00                                                                                                  | 8,835.00            | 9,459.45            | 9,065.00            | 33.88           | 33.42       | 99.29                 | -393.10                           | 394.86     | 1,429.59             | 1,362.58              | 67.01                   | 21.334                    |         |
| 9,400.00                                                                                                  | 8,835.00            | 9,559.45            | 9,065.00            | 34.53           | 34.11       | 99.30                 | -392.00                           | 494.85     | 1,429.09             | 1,360.73              | 68.36                   | 20.904                    |         |
| 9,500.00                                                                                                  | 8,835.00            | 9,659.45            | 9,065.00            | 35.30           | 34.90       | 99.30                 | -390.90                           | 594.84     | 1,428.59             | 1,358.67              | 69.92                   | 20.431                    |         |
| 9,600.00                                                                                                  | 8,835.00            | 9,759.45            | 9,065.00            | 36.17           | 35.80       | 99.30                 | -389.80                           | 694.83     | 1,428.10             | 1,356.42              | 71.68                   | 19.923                    |         |
| 9,700.00                                                                                                  | 8,835.00            | 9,859.45            | 9,065.00            | 37.13           | 36.78       | 99.31                 | -388.70                           | 794.83     | 1,427.60             | 1,353.98              | 73.62                   | 19.393                    |         |
| 9,800.00                                                                                                  | 8,835.00            | 9,959.45            | 9,065.00            | 38.18           | 37.85       | 99.31                 | -387.60                           | 894.82     | 1,427.10             | 1,351.38              | 75.72                   | 18.848                    |         |
| 9,900.00                                                                                                  | 8,835.00            | 10,059.45           | 9,065.00            | 39.31           | 39.00       | 99.31                 | -386.50                           | 994.81     | 1,426.60             | 1,348.63              | 77.97                   | 18.296                    |         |
| 10,000.00                                                                                                 | 8,835.00            | 10,159.44           | 9,065.00            | 40.51           | 40.22       | 99.32                 | -385.40                           | 1,094.80   | 1,426.11             | 1,345.73              | 80.37                   | 17.744                    |         |
| 10,100.00                                                                                                 | 8,835.00            | 10,259.44           | 9,065.00            | 41.78           | 41.50       | 99.32                 | -384.30                           | 1,194.80   | 1,425.61             | 1,342.71              | 82.90                   | 17.197                    |         |
| 10,200.00                                                                                                 | 8,835.00            | 10,359.44           | 9,065.00            | 43.10           | 42.85       | 99.32                 | -383.20                           | 1,294.79   | 1,425.11             | 1,339.57              | 85.54                   | 16.660                    |         |
| 10,300.00                                                                                                 | 8,835.00            | 10,459.44           | 9,065.00            | 44.49           | 44.24       | 99.33                 | -382.10                           | 1,394.78   | 1,424.61             | 1,336.32              | 88.29                   | 16.136                    |         |
| 10,400.00                                                                                                 | 8,835.00            | 10,559.44           | 9,065.00            | 45.92           | 45.69       | 99.33                 | -381.00                           | 1,494.77   | 1,424.11             | 1,332.98              | 91.13                   | 15.627                    |         |
| 10,500.00                                                                                                 | 8,835.00            | 10,659.44           | 9,065.00            | 47.39           | 47.18       | 99.33                 | -379.90                           | 1,594.77   | 1,423.62             | 1,329.55              | 94.07                   | 15.134                    |         |
| 10,600.00                                                                                                 | 8,835.00            | 10,759.44           | 9,065.00            | 48.91           | 48.71       | 99.34                 | -378.80                           | 1,694.76   | 1,423.12             | 1,326.04              | 97.08                   | 14.659                    |         |
| 10,700.00                                                                                                 | 8,835.00            | 10,859.43           | 9,065.00            | 50.47           | 50.28       | 99.34                 | -377.70                           | 1,794.75   | 1,422.62             | 1,322.45              | 100.17                  | 14.203                    |         |
| 10,800.00                                                                                                 | 8,835.00            | 10,959.43           | 9,065.00            | 52.06           | 51.88       | 99.34                 | -376.60                           | 1,894.75   | 1,422.12             | 1,318.80              | 103.32                  | 13.764                    |         |
| 10,900.00                                                                                                 | 8,835.00            | 11,059.43           | 9,065.00            | 53.68           | 53.51       | 99.35                 | -375.50                           | 1,994.74   | 1,421.62             | 1,315.09              | 106.53                  | 13.345                    |         |
| 11,000.00                                                                                                 | 8,835.00            | 11,159.43           | 9,065.00            | 55.32           | 55.17       | 99.35                 | -374.40                           | 2,094.73   | 1,421.13             | 1,311.33              | 109.80                  | 12.943                    |         |
| 11,100.00                                                                                                 | 8,835.00            | 11,259.43           | 9,065.00            | 57.00           | 56.86       | 99.35                 | -373.30                           | 2,194.72   | 1,420.63             | 1,307.51              | 113.12                  | 12.559                    |         |
| 11,200.00                                                                                                 | 8,835.00            | 11,359.43           | 9,065.00            | 58.70           | 58.56       | 99.36                 | -372.19                           | 2,294.72   | 1,420.13             | 1,303.65              | 116.48                  | 12.192                    |         |
| 11,300.00                                                                                                 | 8,835.00            | 11,459.43           | 9,065.00            | 60.41           | 60.29       | 99.36                 | -371.09                           | 2,394.71   | 1,419.63             | 1,299.74              | 119.89                  | 11.841                    |         |
| 11,400.00                                                                                                 | 8,835.00            | 11,559.43           | 9,065.00            | 62.15           | 62.04       | 99.36                 | -369.99                           | 2,494.70   | 1,419.13             | 1,295.80              | 123.33                  | 11.506                    |         |
| 11,500.00                                                                                                 | 8,835.00            | 11,659.42           | 9,065.00            | 63.91           | 63.80       | 99.37                 | -368.89                           | 2,594.69   | 1,418.64             | 1,291.82              | 126.81                  | 11.187                    |         |
| 11,600.00                                                                                                 | 8,835.00            | 11,759.42           | 9,065.00            | 65.69           | 65.59       | 99.37                 | -367.79                           | 2,694.69   | 1,418.14             | 1,287.81              | 130.33                  | 10.881                    |         |
| 11,700.00                                                                                                 | 8,835.00            | 11,859.42           | 9,065.00            | 67.47           | 67.38       | 99.37                 | -366.69                           | 2,794.68   | 1,417.64             | 1,283.77              | 133.87                  | 10.590                    |         |
| 11,800.00                                                                                                 | 8,835.00            | 11,959.42           | 9,065.00            | 69.28           | 69.19       | 99.38                 | -365.59                           | 2,894.67   | 1,417.14             | 1,279.70              | 137.44                  | 10.311                    |         |
| 11,900.00                                                                                                 | 8,835.00            | 12,059.42           | 9,065.00            | 71.09           | 71.01       | 99.38                 | -364.49                           | 2,994.66   | 1,416.64             | 1,275.61              | 141.04                  | 10.044                    |         |
| 12,000.00                                                                                                 | 8,835.00            | 12,159.42           | 9,065.00            | 72.92           | 72.85       | 99.38                 | -363.39                           | 3,094.66   | 1,416.15             | 1,271.49              | 144.66                  | 9.790                     |         |
| 12,100.00                                                                                                 | 8,835.00            | 12,259.42           | 9,065.00            | 74.76           | 74.70       | 99.39                 | -362.29                           | 3,194.65   | 1,415.65             | 1,267.35              | 148.30                  | 9.546                     |         |
| 12,200.00                                                                                                 | 8,835.00            | 12,359.42           | 9,065.00            | 76.61           | 76.55       | 99.39                 | -361.19                           | 3,294.64   | 1,415.15             | 1,263.19              | 151.96                  | 9.312                     |         |
| 12,300.00                                                                                                 | 8,835.00            | 12,459.41           | 9,065.00            | 78.47           | 78.42       | 99.39                 | -360.09                           | 3,394.64   | 1,414.65             | 1,259.01              | 155.64                  | 9.089                     |         |
| 12,400.00                                                                                                 | 8,835.00            | 12,559.41           | 9,065.00            | 80.34           | 80.29       | 99.40                 | -358.99                           | 3,494.63   | 1,414.16             | 1,254.81              | 159.34                  | 8.875                     |         |
| 12,500.00                                                                                                 | 8,835.00            | 12,659.41           | 9,065.00            | 82.22           | 82.17       | 99.40                 | -357.89                           | 3,594.62   | 1,413.66             | 1,250.60              | 163.06                  | 8.670                     |         |
| 12,600.00                                                                                                 | 8,835.00            | 12,759.41           | 9,065.00            | 84.11           | 84.06       | 99.40                 | -356.79                           | 3,694.61   | 1,413.16             | 1,246.37              | 166.79                  | 8.473                     |         |
| 12,700.00                                                                                                 | 8,835.00            | 12,859.41           | 9,065.00            | 86.00           | 85.96       | 99.41                 | -355.69                           | 3,794.61   | 1,412.66             | 1,242.13              | 170.53                  | 8.284                     |         |
| 12,800.00                                                                                                 | 8,835.00            | 12,959.41           | 9,065.00            | 87.90           | 87.86       | 99.41                 | -354.59                           | 3,894.60   | 1,412.16             | 1,237.87              | 174.29                  | 8.102                     |         |
| 12,900.00                                                                                                 | 8,835.00            | 13,059.41           | 9,065.00            | 89.81           | 89.77       | 99.41                 | -353.49                           | 3,994.59   | 1,411.67             | 1,233.60              | 178.06                  | 7.928                     |         |
| 13,000.00                                                                                                 | 8,835.00            | 13,159.41           | 9,065.00            | 91.72           | 91.69       | 99.42                 | -352.39                           | 4,094.58   | 1,411.17             | 1,229.32              | 181.85                  | 7.760                     |         |
| 13,100.00                                                                                                 | 8,835.00            | 13,259.40           | 9,065.00            | 93.64           | 93.61       | 99.42                 | -351.28                           | 4,194.58   | 1,410.67             | 1,225.03              | 185.64                  | 7.599                     |         |
| 13,200.00                                                                                                 | 8,835.00            | 13,359.40           | 9,065.00            | 95.56           | 95.54       | 99.42                 | -350.18                           | 4,294.57   | 1,410.17             | 1,220.73              | 189.44                  | 7.444                     |         |
| 13,300.00                                                                                                 | 8,835.00            | 13,459.40           | 9,065.00            | 97.49           | 97.47       | 99.43                 | -349.08                           | 4,394.56   | 1,409.67             | 1,216.42              | 193.26                  | 7.294                     |         |
| 13,400.00                                                                                                 | 8,835.00            | 13,559.40           | 9,065.00            | 99.42           | 99.40       | 99.43                 | -347.98                           | 4,494.55   | 1,409.18             | 1,212.10              | 197.08                  | 7.150                     |         |
| 13,500.00                                                                                                 | 8,835.00            | 13,659.40           | 9,065.00            | 101.36          | 101.34      | 99.43                 | -346.88                           | 4,594.55   | 1,408.68             | 1,207.77              | 200.91                  | 7.011                     |         |
| 13,600.00                                                                                                 | 8,835.00            | 13,759.40           | 9,065.00            | 103.30          | 103.29      | 99.44                 | -345.78                           | 4,694.54   | 1,408.18             | 1,203.43              | 204.75                  | 6.878                     |         |
| 13,700.00                                                                                                 | 8,835.00            | 13,859.40           | 9,065.00            | 105.25          | 105.23      | 99.44                 | -344.68                           | 4,794.53   | 1,407.68             | 1,199.09              | 208.60                  | 6.748                     |         |
| 13,800.00                                                                                                 | 8,835.00            | 13,959.40           | 9,065.00            | 107.20          | 107.19      | 99.44                 | -343.58                           | 4,894.53   | 1,407.19             | 1,194.73              | 212.45                  | 6.624                     |         |
| 13,900.00                                                                                                 | 8,835.00            | 14,059.39           | 9,065.00            | 109.15          | 109.14      | 99.45                 | -342.48                           | 4,994.52   | 1,406.69             | 1,190.37              | 216.31                  | 6.503                     |         |
| 14,000.00                                                                                                 | 8,835.00            | 14,159.39           | 9,065.00            | 111.10          | 111.10      | 99.45                 | -341.38                           | 5,094.51   | 1,406.19             | 1,186.01              | 220.18                  | 6.387                     |         |
| 14,100.00                                                                                                 | 8,835.00            | 14,259.39           | 9,065.00            | 113.06          | 113.06      | 99.45                 | -340.28                           | 5,194.50   | 1,405.69             | 1,181.64              | 224.06                  | 6.274                     |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 623H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Site Error:</b> | 0.00 ft |
|-----------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 0-MWD+IFR1                                                                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                                 |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                           | Warning |
| Measured Depth (ft)                                                                                       | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor         |         |
| 14,200.00                                                                                                 | 8,835.00            | 14,359.39           | 9,065.00            | 115.03          | 115.03      | 99.46                 | -339.18                           | 5,294.50   | 1,405.19             | 1,177.26              | 227.94                  | 6.165                     |         |
| 14,300.00                                                                                                 | 8,835.00            | 14,459.39           | 9,065.00            | 116.99          | 116.99      | 99.46                 | -338.08                           | 5,394.49   | 1,404.70             | 1,172.88              | 231.82                  | 6.059                     |         |
| 14,400.00                                                                                                 | 8,835.00            | 14,559.39           | 9,065.00            | 118.96          | 118.96      | 99.46                 | -336.98                           | 5,494.48   | 1,404.20             | 1,168.49              | 235.71                  | 5.957                     |         |
| 14,500.00                                                                                                 | 8,835.00            | 14,659.39           | 9,065.00            | 120.93          | 120.93      | 99.47                 | -335.88                           | 5,594.47   | 1,403.70             | 1,164.09              | 239.61                  | 5.858                     |         |
| 14,600.00                                                                                                 | 8,835.00            | 14,759.39           | 9,065.00            | 122.90          | 122.91      | 99.47                 | -334.78                           | 5,694.47   | 1,403.20             | 1,159.70              | 243.51                  | 5.762                     |         |
| 14,700.00                                                                                                 | 8,835.00            | 14,859.38           | 9,065.00            | 124.88          | 124.89      | 99.47                 | -333.68                           | 5,794.46   | 1,402.71             | 1,155.29              | 247.41                  | 5.670                     |         |
| 14,800.00                                                                                                 | 8,835.00            | 14,959.38           | 9,065.00            | 126.86          | 126.86      | 99.48                 | -332.58                           | 5,894.45   | 1,402.21             | 1,150.89              | 251.32                  | 5.579                     |         |
| 14,900.00                                                                                                 | 8,835.00            | 15,059.38           | 9,065.00            | 128.84          | 128.85      | 99.48                 | -331.48                           | 5,994.44   | 1,401.71             | 1,146.48              | 255.24                  | 5.492                     |         |
| 15,000.00                                                                                                 | 8,835.00            | 15,159.38           | 9,065.00            | 130.82          | 130.83      | 99.48                 | -330.38                           | 6,094.44   | 1,401.21             | 1,142.06              | 259.15                  | 5.407                     |         |
| 15,100.00                                                                                                 | 8,835.00            | 15,259.38           | 9,065.00            | 132.80          | 132.81      | 99.49                 | -329.27                           | 6,194.43   | 1,400.72             | 1,137.64              | 263.07                  | 5.324                     |         |
| 15,200.00                                                                                                 | 8,835.00            | 15,359.38           | 9,065.00            | 134.79          | 134.80      | 99.49                 | -328.17                           | 6,294.42   | 1,400.22             | 1,133.22              | 267.00                  | 5.244                     |         |
| 15,300.00                                                                                                 | 8,835.00            | 15,459.38           | 9,065.00            | 136.78          | 136.79      | 99.50                 | -327.07                           | 6,394.42   | 1,399.72             | 1,128.79              | 270.93                  | 5.166                     |         |
| 15,400.00                                                                                                 | 8,835.00            | 15,559.38           | 9,065.00            | 138.76          | 138.78      | 99.50                 | -325.97                           | 6,494.41   | 1,399.22             | 1,124.36              | 274.86                  | 5.091                     |         |
| 15,500.00                                                                                                 | 8,835.00            | 15,659.37           | 9,065.00            | 140.76          | 140.77      | 99.50                 | -324.87                           | 6,594.40   | 1,398.72             | 1,119.93              | 278.79                  | 5.017                     |         |
| 15,600.00                                                                                                 | 8,835.00            | 15,759.37           | 9,065.00            | 142.75          | 142.76      | 99.51                 | -323.77                           | 6,694.39   | 1,398.23             | 1,115.50              | 282.73                  | 4.945 Alert               |         |
| 15,700.00                                                                                                 | 8,835.00            | 15,859.37           | 9,065.00            | 144.74          | 144.76      | 99.51                 | -322.67                           | 6,794.39   | 1,397.73             | 1,111.06              | 286.67                  | 4.876 Alert               |         |
| 15,800.00                                                                                                 | 8,835.00            | 15,959.37           | 9,065.00            | 146.74          | 146.75      | 99.51                 | -321.57                           | 6,894.38   | 1,397.23             | 1,106.62              | 290.61                  | 4.808 Alert               |         |
| 15,900.00                                                                                                 | 8,835.00            | 16,059.37           | 9,065.00            | 148.73          | 148.75      | 99.52                 | -320.47                           | 6,994.37   | 1,396.73             | 1,102.17              | 294.56                  | 4.742 Alert               |         |
| 16,000.00                                                                                                 | 8,835.00            | 16,159.37           | 9,065.00            | 150.73          | 150.75      | 99.52                 | -319.37                           | 7,094.36   | 1,396.24             | 1,097.73              | 298.51                  | 4.677 Alert               |         |
| 16,100.00                                                                                                 | 8,835.00            | 16,259.37           | 9,065.00            | 152.73          | 152.75      | 99.52                 | -318.27                           | 7,194.36   | 1,395.74             | 1,093.28              | 302.46                  | 4.615 Alert               |         |
| 16,200.00                                                                                                 | 8,835.00            | 16,359.36           | 9,065.00            | 154.73          | 154.75      | 99.53                 | -317.17                           | 7,294.35   | 1,395.24             | 1,088.83              | 306.41                  | 4.553 Alert               |         |
| 16,300.00                                                                                                 | 8,835.00            | 16,459.36           | 9,065.00            | 156.73          | 156.75      | 99.53                 | -316.07                           | 7,394.34   | 1,394.74             | 1,084.38              | 310.37                  | 4.494 Alert               |         |
| 16,400.00                                                                                                 | 8,835.00            | 16,559.36           | 9,065.00            | 158.74          | 158.76      | 99.53                 | -314.97                           | 7,494.33   | 1,394.25             | 1,079.92              | 314.32                  | 4.436 Alert               |         |
| 16,500.00                                                                                                 | 8,835.00            | 16,659.36           | 9,065.00            | 160.74          | 160.76      | 99.54                 | -313.87                           | 7,594.33   | 1,393.75             | 1,075.46              | 318.28                  | 4.379 Alert               |         |
| 16,600.00                                                                                                 | 8,835.00            | 16,759.36           | 9,065.00            | 162.74          | 162.77      | 99.54                 | -312.77                           | 7,694.32   | 1,393.25             | 1,071.00              | 322.25                  | 4.324 Alert               |         |
| 16,700.00                                                                                                 | 8,835.00            | 16,859.36           | 9,065.00            | 164.75          | 164.77      | 99.54                 | -311.67                           | 7,794.31   | 1,392.75             | 1,066.54              | 326.21                  | 4.270 Alert               |         |
| 16,800.00                                                                                                 | 8,835.00            | 16,959.36           | 9,065.00            | 166.76          | 166.78      | 99.55                 | -310.57                           | 7,894.31   | 1,392.25             | 1,062.08              | 330.17                  | 4.217 Alert               |         |
| 16,900.00                                                                                                 | 8,835.00            | 17,059.36           | 9,065.00            | 168.77          | 168.79      | 99.55                 | -309.47                           | 7,994.30   | 1,391.76             | 1,057.62              | 334.14                  | 4.165 Alert               |         |
| 17,000.00                                                                                                 | 8,835.00            | 17,159.35           | 9,065.00            | 170.77          | 170.80      | 99.55                 | -308.36                           | 8,094.29   | 1,391.26             | 1,053.15              | 338.11                  | 4.115 Alert               |         |
| 17,100.00                                                                                                 | 8,835.00            | 17,259.35           | 9,065.00            | 172.78          | 172.81      | 99.56                 | -307.26                           | 8,194.28   | 1,390.76             | 1,048.68              | 342.08                  | 4.066 Alert               |         |
| 17,200.00                                                                                                 | 8,835.00            | 17,359.35           | 9,065.00            | 174.79          | 174.82      | 99.56                 | -306.16                           | 8,294.28   | 1,390.26             | 1,044.21              | 346.05                  | 4.017 Alert               |         |
| 17,300.00                                                                                                 | 8,835.00            | 17,459.35           | 9,065.00            | 176.81          | 176.83      | 99.56                 | -305.06                           | 8,394.27   | 1,389.77             | 1,039.74              | 350.03                  | 3.970 Alert               |         |
| 17,400.00                                                                                                 | 8,835.00            | 17,559.35           | 9,065.00            | 178.82          | 178.84      | 99.57                 | -303.96                           | 8,494.26   | 1,389.27             | 1,035.27              | 354.00                  | 3.924 Alert               |         |
| 17,500.00                                                                                                 | 8,835.00            | 17,659.35           | 9,065.00            | 180.83          | 180.85      | 99.57                 | -302.86                           | 8,594.25   | 1,388.77             | 1,030.79              | 357.98                  | 3.879 Alert               |         |
| 17,600.00                                                                                                 | 8,835.00            | 17,759.35           | 9,065.00            | 182.84          | 182.87      | 99.57                 | -301.76                           | 8,694.25   | 1,388.27             | 1,026.32              | 361.96                  | 3.835 Alert               |         |
| 17,700.00                                                                                                 | 8,835.00            | 17,859.35           | 9,065.00            | 184.86          | 184.88      | 99.58                 | -300.66                           | 8,794.24   | 1,387.78             | 1,021.84              | 365.94                  | 3.792 Alert               |         |
| 17,800.00                                                                                                 | 8,835.00            | 17,959.34           | 9,065.00            | 186.87          | 186.90      | 99.58                 | -299.56                           | 8,894.23   | 1,387.28             | 1,017.36              | 369.92                  | 3.750 Alert               |         |
| 17,900.00                                                                                                 | 8,835.00            | 18,059.34           | 9,065.00            | 188.89          | 188.91      | 99.58                 | -298.46                           | 8,994.23   | 1,386.78             | 1,012.88              | 373.90                  | 3.709 Alert               |         |
| 18,000.00                                                                                                 | 8,835.00            | 18,159.34           | 9,065.00            | 190.91          | 190.93      | 99.59                 | -297.36                           | 9,094.22   | 1,386.28             | 1,008.40              | 377.88                  | 3.669 Alert               |         |
| 18,100.00                                                                                                 | 8,835.00            | 18,259.34           | 9,065.00            | 192.92          | 192.95      | 99.59                 | -296.26                           | 9,194.21   | 1,385.79             | 1,003.92              | 381.86                  | 3.629 Alert               |         |
| 18,200.00                                                                                                 | 8,835.00            | 18,359.34           | 9,065.00            | 194.94          | 194.96      | 99.59                 | -295.16                           | 9,294.20   | 1,385.29             | 999.44                | 385.85                  | 3.590 Alert               |         |
| 18,300.00                                                                                                 | 8,835.00            | 18,459.34           | 9,065.00            | 196.96          | 196.98      | 99.60                 | -294.06                           | 9,394.20   | 1,384.79             | 994.95                | 389.84                  | 3.552 Alert               |         |
| 18,400.00                                                                                                 | 8,835.00            | 18,559.34           | 9,065.00            | 198.98          | 199.00      | 99.60                 | -292.96                           | 9,494.19   | 1,384.29             | 990.47                | 393.82                  | 3.515 Alert               |         |
| 18,500.00                                                                                                 | 8,835.00            | 18,659.34           | 9,065.00            | 201.00          | 201.02      | 99.61                 | -291.86                           | 9,594.18   | 1,383.80             | 985.98                | 397.81                  | 3.479 Alert               |         |
| 18,600.00                                                                                                 | 8,835.00            | 18,759.33           | 9,065.00            | 203.02          | 203.04      | 99.61                 | -290.76                           | 9,694.17   | 1,383.30             | 981.50                | 401.80                  | 3.443 Alert               |         |
| 18,700.00                                                                                                 | 8,835.00            | 18,859.33           | 9,065.00            | 205.04          | 205.06      | 99.61                 | -289.66                           | 9,794.17   | 1,382.80             | 977.01                | 405.79                  | 3.408 Alert               |         |
| 18,800.00                                                                                                 | 8,835.00            | 18,959.33           | 9,065.00            | 207.06          | 207.08      | 99.62                 | -288.56                           | 9,894.16   | 1,382.30             | 972.52                | 409.78                  | 3.373 Alert               |         |
| 18,900.00                                                                                                 | 8,835.00            | 19,059.33           | 9,065.00            | 209.08          | 209.10      | 99.62                 | -287.46                           | 9,994.15   | 1,381.81             | 968.03                | 413.77                  | 3.340 Alert               |         |
| 19,000.00                                                                                                 | 8,835.00            | 19,159.33           | 9,065.00            | 211.10          | 211.12      | 99.62                 | -286.35                           | 10,094.14  | 1,381.31             | 963.54                | 417.77                  | 3.306 Alert               |         |
| 19,100.00                                                                                                 | 8,835.00            | 19,259.33           | 9,065.00            | 213.12          | 213.15      | 99.63                 | -285.25                           | 10,194.14  | 1,380.81             | 959.05                | 421.76                  | 3.274 Alert               |         |
| 19,200.00                                                                                                 | 8,835.00            | 19,359.33           | 9,065.00            | 215.15          | 215.17      | 99.63                 | -284.15                           | 10,294.13  | 1,380.31             | 954.56                | 425.76                  | 3.242 Alert               |         |
| 19,302.28                                                                                                 | 8,835.00            | 19,461.61           | 9,065.00            | 217.22          | 217.24      | 99.63                 | -283.03                           | 10,396.40  | 1,379.80             | 949.96                | 429.84                  | 3.210 Alert               |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lone Tree Draw 14-13 State Com 623H - Wellbore #1 - Permit Plan 1 |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Site Error:</b> | 0.00 ft   |
|-----------------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|-----------------------------------------|---------------|-------------------------|--------------------------|----------------------------|---------------------------|-----------|
| Survey Program: 0-MWD+IFR1                                                                                |                        |                        |                        |                   |                |                          |                                         |               |                         |                          |                            | <b>Offset Well Error:</b> | 0.50 ft   |
| Reference                                                                                                 |                        | Offset                 |                        | Semi Major Axis   |                |                          | Distance                                |               |                         |                          |                            |                           |           |
| Measured Depth<br>(ft)                                                                                    | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between Centres<br>(ft) | Between Ellipses<br>(ft) | Minimum Separation<br>(ft) | Separation Factor         | Warning   |
| 19,308.27                                                                                                 | 8,835.00               | 19,456.84              | 9,065.00               | 217.34            | 217.14         | 99.63                    | -283.08                                 | 10,391.64     | 1,379.82                | 949.96                   | 429.86                     | 3.210                     | Alert, SF |



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 0.00                        | 0.00                | 0.00                | 0.00                | 0.50            | 0.50        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.68             |                       |                         |                   |                    |         |
| 100.00                      | 100.00              | 50.20               | 50.20               | 0.52            | 0.78        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,376.01              | 1.30                    | 2,597.236         |                    |         |
| 200.00                      | 200.00              | 150.20              | 150.20              | 0.70            | 2.16        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,374.45              | 2.86                    | 1,180.686         |                    |         |
| 300.00                      | 300.00              | 250.20              | 250.20              | 0.99            | 3.63        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,372.69              | 4.62                    | 731.150           |                    |         |
| 400.00                      | 400.00              | 350.20              | 350.20              | 1.31            | 5.12        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,370.88              | 6.43                    | 525.371           |                    |         |
| 500.00                      | 500.00              | 450.20              | 450.20              | 1.65            | 6.61        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,369.05              | 8.26                    | 408.999           |                    |         |
| 600.00                      | 600.00              | 550.20              | 550.20              | 1.99            | 8.11        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,367.21              | 10.10                   | 334.516           |                    |         |
| 700.00                      | 700.00              | 650.20              | 650.20              | 2.34            | 9.60        | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,365.37              | 11.94                   | 282.856           |                    |         |
| 800.00                      | 800.00              | 750.20              | 750.20              | 2.69            | 11.10       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,363.52              | 13.79                   | 244.960           |                    |         |
| 900.00                      | 900.00              | 850.20              | 850.20              | 3.04            | 12.59       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,361.67              | 15.64                   | 215.990           |                    |         |
| 1,000.00                    | 1,000.00            | 950.20              | 950.20              | 3.40            | 14.09       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,359.82              | 17.49                   | 193.132           |                    |         |
| 1,100.00                    | 1,100.00            | 1,050.20            | 1,050.20            | 3.75            | 15.59       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,357.97              | 19.34                   | 174.640           |                    |         |
| 1,200.00                    | 1,200.00            | 1,150.20            | 1,150.20            | 4.11            | 17.08       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,356.12              | 21.19                   | 159.373           |                    |         |
| 1,300.00                    | 1,300.00            | 1,250.20            | 1,250.20            | 4.46            | 18.58       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,354.27              | 23.04                   | 146.558           |                    |         |
| 1,400.00                    | 1,400.00            | 1,350.20            | 1,350.20            | 4.82            | 20.08       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,352.41              | 24.90                   | 135.647           |                    |         |
| 1,500.00                    | 1,500.00            | 1,450.20            | 1,450.20            | 5.18            | 21.57       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,350.56              | 26.75                   | 126.247           |                    |         |
| 1,600.00                    | 1,600.00            | 1,550.20            | 1,550.20            | 5.53            | 23.07       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,348.70              | 28.61                   | 118.064           |                    |         |
| 1,700.00                    | 1,700.00            | 1,650.20            | 1,650.20            | 5.89            | 24.57       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,346.85              | 30.46                   | 110.877           |                    |         |
| 1,800.00                    | 1,800.00            | 1,750.20            | 1,750.20            | 6.25            | 26.07       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,345.00              | 32.31                   | 104.513           |                    |         |
| 1,900.00                    | 1,900.00            | 1,850.20            | 1,850.20            | 6.61            | 27.56       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,343.14              | 34.17                   | 98.840            |                    |         |
| 2,000.00                    | 2,000.00            | 1,950.20            | 1,950.20            | 6.96            | 29.06       | 114.70                | -1,411.08                         | 3,068.40   | 3,377.31             | 3,341.29              | 36.02                   | 93.751            |                    |         |
| 2,100.00                    | 2,099.99            | 2,050.19            | 2,050.19            | 7.32            | 30.56       | 127.48                | -1,411.08                         | 3,068.40   | 3,377.84             | 3,339.96              | 37.88                   | 89.175            |                    |         |
| 2,200.00                    | 2,199.96            | 2,150.16            | 2,150.16            | 7.68            | 32.06       | 127.51                | -1,411.08                         | 3,068.40   | 3,379.43             | 3,339.70              | 39.73                   | 85.055            |                    |         |
| 2,300.00                    | 2,299.86            | 2,250.06            | 2,250.06            | 8.04            | 33.55       | 127.54                | -1,411.08                         | 3,068.40   | 3,382.09             | 3,340.51              | 41.58                   | 81.331            |                    |         |
| 2,400.00                    | 2,399.68            | 2,349.88            | 2,349.88            | 8.39            | 35.05       | 127.60                | -1,411.08                         | 3,068.40   | 3,385.82             | 3,342.38              | 43.43                   | 77.952            |                    |         |
| 2,500.00                    | 2,499.37            | 2,449.57            | 2,449.57            | 8.75            | 36.54       | 127.66                | -1,411.08                         | 3,068.40   | 3,390.62             | 3,345.34              | 45.28                   | 74.876            |                    |         |
| 2,600.00                    | 2,598.90            | 2,549.10            | 2,549.10            | 9.11            | 38.03       | 127.74                | -1,411.08                         | 3,068.40   | 3,396.50             | 3,349.37              | 47.13                   | 72.068            |                    |         |
| 2,700.00                    | 2,698.26            | 2,648.46            | 2,648.46            | 9.46            | 39.52       | 127.84                | -1,411.08                         | 3,068.40   | 3,403.46             | 3,354.49              | 48.97                   | 69.497            |                    |         |
| 2,800.00                    | 2,797.40            | 2,747.60            | 2,747.60            | 9.82            | 41.00       | 127.95                | -1,411.08                         | 3,068.40   | 3,411.52             | 3,360.71              | 50.81                   | 67.139            |                    |         |
| 2,900.00                    | 2,896.30            | 2,846.50            | 2,846.50            | 10.18           | 42.48       | 128.07                | -1,411.08                         | 3,068.40   | 3,420.69             | 3,368.04              | 52.65                   | 64.971            |                    |         |
| 3,000.00                    | 2,994.93            | 2,945.13            | 2,945.13            | 10.54           | 43.96       | 128.20                | -1,411.08                         | 3,068.40   | 3,430.97             | 3,376.48              | 54.48                   | 62.973            |                    |         |
| 3,100.00                    | 3,093.26            | 3,043.46            | 3,043.46            | 10.90           | 45.43       | 128.35                | -1,411.08                         | 3,068.40   | 3,442.37             | 3,386.06              | 56.31                   | 61.130            |                    |         |
| 3,195.07                    | 3,186.42            | 3,136.62            | 3,136.62            | 11.24           | 46.83       | 128.50                | -1,411.08                         | 3,068.40   | 3,454.27             | 3,396.22              | 58.05                   | 59.507            |                    |         |
| 3,200.00                    | 3,191.25            | 3,141.45            | 3,141.45            | 11.26           | 46.90       | 128.51                | -1,411.08                         | 3,068.40   | 3,454.92             | 3,396.78              | 58.14                   | 59.425            |                    |         |
| 3,300.00                    | 3,289.08            | 3,239.28            | 3,239.28            | 11.62           | 48.37       | 128.78                | -1,411.08                         | 3,068.40   | 3,468.02             | 3,408.06              | 59.96                   | 57.836            |                    |         |
| 3,400.00                    | 3,386.91            | 3,337.11            | 3,337.11            | 11.98           | 49.83       | 129.04                | -1,411.08                         | 3,068.40   | 3,481.20             | 3,419.41              | 61.79                   | 56.341            |                    |         |
| 3,500.00                    | 3,484.74            | 3,434.94            | 3,434.94            | 12.35           | 51.30       | 129.30                | -1,411.08                         | 3,068.40   | 3,494.45             | 3,430.83              | 63.62                   | 54.931            |                    |         |
| 3,600.00                    | 3,582.58            | 3,532.78            | 3,532.78            | 12.72           | 52.76       | 129.56                | -1,411.08                         | 3,068.40   | 3,507.77             | 3,442.33              | 65.44                   | 53.599            |                    |         |
| 3,700.00                    | 3,680.41            | 3,630.61            | 3,630.61            | 13.09           | 54.23       | 129.81                | -1,411.08                         | 3,068.40   | 3,521.16             | 3,453.89              | 67.27                   | 52.340            |                    |         |
| 3,800.00                    | 3,778.24            | 3,728.44            | 3,728.44            | 13.46           | 55.69       | 130.07                | -1,411.08                         | 3,068.40   | 3,534.63             | 3,465.52              | 69.11                   | 51.148            |                    |         |
| 3,900.00                    | 3,876.08            | 3,826.28            | 3,826.28            | 13.83           | 57.16       | 130.32                | -1,411.08                         | 3,068.40   | 3,548.16             | 3,477.22              | 70.94                   | 50.018            |                    |         |
| 4,000.00                    | 3,973.91            | 3,924.11            | 3,924.11            | 14.21           | 58.62       | 130.57                | -1,411.08                         | 3,068.40   | 3,561.76             | 3,488.99              | 72.77                   | 48.945            |                    |         |
| 4,100.00                    | 4,071.74            | 4,021.94            | 4,021.94            | 14.58           | 60.09       | 130.82                | -1,411.08                         | 3,068.40   | 3,575.44             | 3,500.83              | 74.60                   | 47.925            |                    |         |
| 4,200.00                    | 4,169.57            | 4,119.77            | 4,119.77            | 14.96           | 61.55       | 131.07                | -1,411.08                         | 3,068.40   | 3,589.17             | 3,512.73              | 76.44                   | 46.954            |                    |         |
| 4,300.00                    | 4,267.41            | 4,217.61            | 4,217.61            | 15.33           | 63.02       | 131.31                | -1,411.08                         | 3,068.40   | 3,602.98             | 3,524.70              | 78.28                   | 46.030            |                    |         |
| 4,400.00                    | 4,365.24            | 4,315.44            | 4,315.44            | 15.71           | 64.48       | 131.56                | -1,411.08                         | 3,068.40   | 3,616.85             | 3,536.74              | 80.11                   | 45.148            |                    |         |
| 4,500.00                    | 4,463.07            | 4,413.27            | 4,413.27            | 16.09           | 65.95       | 131.80                | -1,411.08                         | 3,068.40   | 3,630.79             | 3,548.84              | 81.95                   | 44.306            |                    |         |
| 4,600.00                    | 4,560.90            | 4,511.10            | 4,511.10            | 16.47           | 67.41       | 132.04                | -1,411.08                         | 3,068.40   | 3,644.79             | 3,561.00              | 83.79                   | 43.501            |                    |         |
| 4,700.00                    | 4,658.74            | 4,608.94            | 4,608.94            | 16.85           | 68.88       | 132.27                | -1,411.08                         | 3,068.40   | 3,658.85             | 3,573.23              | 85.62                   | 42.732            |                    |         |
| 4,800.00                    | 4,756.57            | 4,706.77            | 4,706.77            | 17.23           | 70.34       | 132.51                | -1,411.08                         | 3,068.40   | 3,672.98             | 3,585.52              | 87.46                   | 41.995            |                    |         |
| 4,900.00                    | 4,854.40            | 4,804.60            | 4,804.60            | 17.61           | 71.81       | 132.75                | -1,411.08                         | 3,068.40   | 3,687.17             | 3,597.87              | 89.30                   | 41.289            |                    |         |
| 5,000.00                    | 4,952.23            | 4,902.43            | 4,902.43            | 17.99           | 73.27       | 132.98                | -1,411.08                         | 3,068.40   | 3,701.42             | 3,610.28              | 91.14                   | 40.612            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 10-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,100.00                    | 5,050.07            | 5,000.27            | 5,000.27            | 18.37           | 74.74       | 133.21                | -1,411.08                         | 3,068.40   | 3,715.73             | 3,622.75              | 92.98                   | 39.962            |                    |         |
| 5,200.00                    | 5,147.90            | 5,098.10            | 5,098.10            | 18.75           | 76.20       | 133.44                | -1,411.08                         | 3,068.40   | 3,730.10             | 3,635.28              | 94.82                   | 39.338            |                    |         |
| 5,300.00                    | 5,245.73            | 5,195.93            | 5,195.93            | 19.14           | 77.67       | 133.67                | -1,411.08                         | 3,068.40   | 3,744.53             | 3,647.87              | 96.66                   | 38.739            |                    |         |
| 5,400.00                    | 5,343.56            | 5,293.76            | 5,293.76            | 19.52           | 79.13       | 133.89                | -1,411.08                         | 3,068.40   | 3,759.02             | 3,660.52              | 98.50                   | 38.162            |                    |         |
| 5,500.00                    | 5,441.40            | 5,391.60            | 5,391.60            | 19.90           | 80.60       | 134.12                | -1,411.08                         | 3,068.40   | 3,773.57             | 3,673.22              | 100.34                  | 37.606            |                    |         |
| 5,600.00                    | 5,539.23            | 5,489.43            | 5,489.43            | 20.29           | 82.06       | 134.34                | -1,411.08                         | 3,068.40   | 3,788.17             | 3,685.99              | 102.19                  | 37.072            |                    |         |
| 5,700.00                    | 5,637.06            | 5,587.26            | 5,587.26            | 20.67           | 83.53       | 134.56                | -1,411.08                         | 3,068.40   | 3,802.83             | 3,698.81              | 104.03                  | 36.556            |                    |         |
| 5,800.00                    | 5,734.90            | 5,685.10            | 5,685.10            | 21.05           | 84.99       | 134.78                | -1,411.08                         | 3,068.40   | 3,817.55             | 3,711.68              | 105.87                  | 36.059            |                    |         |
| 5,900.00                    | 5,832.73            | 5,782.93            | 5,782.93            | 21.44           | 86.46       | 135.00                | -1,411.08                         | 3,068.40   | 3,832.32             | 3,724.61              | 107.71                  | 35.579            |                    |         |
| 6,000.00                    | 5,930.56            | 5,880.76            | 5,880.76            | 21.83           | 87.92       | 135.21                | -1,411.08                         | 3,068.40   | 3,847.15             | 3,737.60              | 109.55                  | 35.116            |                    |         |
| 6,100.00                    | 6,028.39            | 5,978.59            | 5,978.59            | 22.21           | 89.39       | 135.42                | -1,411.08                         | 3,068.40   | 3,862.03             | 3,750.64              | 111.40                  | 34.669            |                    |         |
| 6,200.00                    | 6,126.23            | 6,076.43            | 6,076.43            | 22.60           | 90.86       | 135.64                | -1,411.08                         | 3,068.40   | 3,876.97             | 3,763.73              | 113.24                  | 34.237            |                    |         |
| 6,300.00                    | 6,224.06            | 6,174.26            | 6,174.26            | 22.98           | 92.32       | 135.85                | -1,411.08                         | 3,068.40   | 3,891.96             | 3,776.87              | 115.08                  | 33.819            |                    |         |
| 6,400.00                    | 6,321.89            | 6,272.09            | 6,272.09            | 23.37           | 93.79       | 136.06                | -1,411.08                         | 3,068.40   | 3,907.00             | 3,790.07              | 116.93                  | 33.414            |                    |         |
| 6,500.00                    | 6,419.72            | 6,369.92            | 6,369.92            | 23.76           | 95.25       | 136.27                | -1,411.08                         | 3,068.40   | 3,922.09             | 3,803.32              | 118.77                  | 33.023            |                    |         |
| 6,600.00                    | 6,517.56            | 6,467.76            | 6,467.76            | 24.14           | 96.72       | 136.47                | -1,411.08                         | 3,068.40   | 3,937.23             | 3,816.62              | 120.61                  | 32.643            |                    |         |
| 6,700.00                    | 6,615.39            | 6,565.59            | 6,565.59            | 24.53           | 98.18       | 136.68                | -1,411.08                         | 3,068.40   | 3,952.43             | 3,829.97              | 122.46                  | 32.276            |                    |         |
| 6,800.00                    | 6,713.22            | 6,663.42            | 6,663.42            | 24.92           | 99.65       | 136.88                | -1,411.08                         | 3,068.40   | 3,967.67             | 3,843.37              | 124.30                  | 31.920            |                    |         |
| 6,900.00                    | 6,811.05            | 6,761.25            | 6,761.25            | 25.30           | 101.11      | 137.08                | -1,411.08                         | 3,068.40   | 3,982.96             | 3,856.82              | 126.15                  | 31.574            |                    |         |
| 7,000.00                    | 6,908.89            | 6,859.09            | 6,859.09            | 25.69           | 102.58      | 137.28                | -1,411.08                         | 3,068.40   | 3,998.30             | 3,870.31              | 127.99                  | 31.239            |                    |         |
| 7,100.00                    | 7,006.72            | 6,956.92            | 6,956.92            | 26.08           | 104.04      | 137.48                | -1,411.08                         | 3,068.40   | 4,013.69             | 3,883.86              | 129.83                  | 30.914            |                    |         |
| 7,200.00                    | 7,104.55            | 7,054.75            | 7,054.75            | 26.47           | 105.51      | 137.68                | -1,411.08                         | 3,068.40   | 4,029.13             | 3,897.45              | 131.68                  | 30.598            |                    |         |
| 7,216.87                    | 7,121.05            | 7,071.25            | 7,071.25            | 26.53           | 105.75      | 137.71                | -1,411.08                         | 3,068.40   | 4,031.74             | 3,899.75              | 131.99                  | 30.546            |                    |         |
| 7,300.00                    | 7,202.57            | 7,152.77            | 7,152.77            | 26.85           | 106.97      | 137.99                | -1,411.08                         | 3,068.40   | 4,043.95             | 3,910.42              | 133.52                  | 30.286            |                    |         |
| 7,400.00                    | 7,301.06            | 7,251.26            | 7,251.26            | 27.23           | 108.45      | 138.28                | -1,411.08                         | 3,068.40   | 4,056.91             | 3,921.53              | 135.37                  | 29.968            |                    |         |
| 7,500.00                    | 7,399.97            | 7,350.17            | 7,350.17            | 27.61           | 109.93      | 138.53                | -1,411.08                         | 3,068.40   | 4,067.96             | 3,930.73              | 137.23                  | 29.644            |                    |         |
| 7,600.00                    | 7,499.23            | 7,449.43            | 7,449.43            | 27.98           | 111.42      | 138.73                | -1,411.08                         | 3,068.40   | 4,077.07             | 3,937.99              | 139.08                  | 29.315            |                    |         |
| 7,700.00                    | 7,598.77            | 7,548.97            | 7,548.97            | 28.34           | 112.91      | 138.89                | -1,411.08                         | 3,068.40   | 4,084.24             | 3,943.31              | 140.93                  | 28.981            |                    |         |
| 7,800.00                    | 7,698.53            | 7,648.73            | 7,648.73            | 28.70           | 114.40      | 139.01                | -1,411.08                         | 3,068.40   | 4,089.44             | 3,946.66              | 142.78                  | 28.642            |                    |         |
| 7,900.00                    | 7,798.44            | 7,748.64            | 7,748.64            | 29.05           | 115.90      | 139.08                | -1,411.08                         | 3,068.40   | 4,092.68             | 3,948.05              | 144.63                  | 28.298            |                    |         |
| 8,000.00                    | 7,898.42            | 7,848.62            | 7,848.62            | 29.39           | 117.40      | 139.10                | -1,411.08                         | 3,068.40   | 4,093.93             | 3,947.47              | 146.47                  | 27.951            |                    |         |
| 8,013.58                    | 7,912.00            | 7,862.20            | 7,862.20            | 29.43           | 117.60      | 126.32                | -1,411.08                         | 3,068.40   | 4,093.95             | 3,947.23              | 146.72                  | 27.903            |                    |         |
| 8,100.00                    | 7,998.42            | 7,948.62            | 7,948.62            | 29.73           | 118.89      | 126.32                | -1,411.08                         | 3,068.40   | 4,093.95             | 3,945.64              | 148.31                  | 27.604            |                    |         |
| 8,200.00                    | 8,098.42            | 8,048.62            | 8,048.62            | 30.07           | 120.39      | 126.32                | -1,411.08                         | 3,068.40   | 4,093.95             | 3,943.81              | 150.15                  | 27.266            |                    |         |
| 8,300.00                    | 8,198.42            | 8,148.62            | 8,148.62            | 30.41           | 121.89      | 126.32                | -1,411.08                         | 3,068.40   | 4,093.95             | 3,941.97              | 151.99                  | 26.936            |                    |         |
| 8,363.62                    | 8,262.04            | 8,212.24            | 8,212.24            | 30.62           | 122.84      | 126.32                | -1,411.08                         | 3,068.40   | 4,093.95             | 3,940.80              | 153.16                  | 26.731            |                    |         |
| 8,400.00                    | 8,298.40            | 8,248.60            | 8,248.60            | 30.75           | 123.39      | 36.73                 | -1,411.08                         | 3,068.40   | 4,093.03             | 3,939.20              | 153.82                  | 26.609            |                    |         |
| 8,450.00                    | 8,348.10            | 8,298.30            | 8,298.30            | 30.91           | 124.13      | 37.03                 | -1,411.08                         | 3,068.40   | 4,088.74             | 3,934.02              | 154.72                  | 26.426            |                    |         |
| 8,500.00                    | 8,397.14            | 8,347.34            | 8,347.34            | 31.07           | 124.87      | 37.59                 | -1,411.08                         | 3,068.40   | 4,081.00             | 3,925.40              | 155.61                  | 26.226            |                    |         |
| 8,550.00                    | 8,445.15            | 8,395.35            | 8,395.35            | 31.23           | 125.58      | 38.41                 | -1,411.08                         | 3,068.40   | 4,069.89             | 3,913.42              | 156.47                  | 26.011            |                    |         |
| 8,600.00                    | 8,491.77            | 8,441.97            | 8,441.97            | 31.38           | 126.28      | 39.51                 | -1,411.08                         | 3,068.40   | 4,055.49             | 3,898.19              | 157.30                  | 25.781            |                    |         |
| 8,650.00                    | 8,536.65            | 8,486.85            | 8,486.85            | 31.52           | 126.95      | 40.92                 | -1,411.08                         | 3,068.40   | 4,037.94             | 3,879.84              | 158.10                  | 25.540            |                    |         |
| 8,700.00                    | 8,579.43            | 8,529.63            | 8,529.63            | 31.66           | 127.60      | 42.65                 | -1,411.08                         | 3,068.40   | 4,017.40             | 3,858.54              | 158.86                  | 25.289            |                    |         |
| 8,750.00                    | 8,619.80            | 8,570.00            | 8,570.00            | 31.80           | 128.20      | 44.74                 | -1,411.08                         | 3,068.40   | 3,994.05             | 3,834.48              | 159.57                  | 25.029            |                    |         |
| 8,800.00                    | 8,657.44            | 8,607.64            | 8,607.64            | 31.93           | 128.76      | 47.22                 | -1,411.08                         | 3,068.40   | 3,968.10             | 3,807.86              | 160.24                  | 24.763            |                    |         |
| 8,850.00                    | 8,692.08            | 8,642.28            | 8,642.28            | 32.06           | 129.28      | 50.13                 | -1,411.08                         | 3,068.40   | 3,939.77             | 3,778.92              | 160.86                  | 24.492            |                    |         |
| 8,900.00                    | 8,723.44            | 8,673.64            | 8,673.64            | 32.19           | 129.75      | 53.50                 | -1,411.08                         | 3,068.40   | 3,909.33             | 3,747.91              | 161.42                  | 24.218            |                    |         |
| 8,950.00                    | 8,751.29            | 8,701.49            | 8,701.49            | 32.34           | 130.17      | 57.36                 | -1,411.08                         | 3,068.40   | 3,877.03             | 3,715.09              | 161.93                  | 23.942            |                    |         |
| 9,000.00                    | 8,775.42            | 8,725.62            | 8,725.62            | 32.50           | 130.53      | 61.69                 | -1,411.08                         | 3,068.40   | 3,843.15             | 3,680.76              | 162.39                  | 23.666            |                    |         |
| 9,050.00                    | 8,795.64            | 8,745.84            | 8,745.84            | 32.67           | 130.83      | 66.49                 | -1,411.08                         | 3,068.40   | 3,807.99             | 3,645.19              | 162.80                  | 23.391            |                    |         |
| 9,100.00                    | 8,811.80            | 8,762.00            | 8,762.00            | 32.87           | 131.08      | 71.69                 | -1,411.08                         | 3,068.40   | 3,771.85             | 3,608.69              | 163.15                  | 23.119            |                    |         |
| 9,150.00                    | 8,823.77            | 8,773.97            | 8,773.97            | 33.10           | 131.25      | 77.18                 | -1,411.08                         | 3,068.40   | 3,735.02             | 3,571.57              | 163.45                  | 22.850            |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lonetree 14 State Com #001 - Wellbore #1 - Wellbore #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Site Error:</b> | 0.00 ft |
|------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 10-INC-ONLY                                                                    |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                      |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                           | Warning |
| Measured Depth (ft)                                                                            | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor         |         |
| 9,200.00                                                                                       | 8,831.47            | 8,781.67            | 8,781.67            | 33.34           | 131.37      | 82.83                 | -1,411.08                         | 3,068.40   | 3,697.83             | 3,534.12              | 163.71                  | 22.588                    |         |
| 9,250.00                                                                                       | 8,834.84            | 8,785.04            | 8,785.04            | 33.60           | 131.42      | 88.48                 | -1,411.08                         | 3,068.40   | 3,660.56             | 3,496.65              | 163.91                  | 22.333                    |         |
| 9,263.62                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 33.67           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,650.43             | 3,486.48              | 163.95                  | 22.265                    |         |
| 9,300.00                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 33.88           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,623.50             | 3,459.42              | 164.08                  | 22.084                    |         |
| 9,400.00                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 34.53           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,550.33             | 3,385.86              | 164.47                  | 21.586                    |         |
| 9,500.00                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 35.30           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,478.49             | 3,313.54              | 164.95                  | 21.088                    |         |
| 9,600.00                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 36.17           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,408.08             | 3,242.55              | 165.52                  | 20.590                    |         |
| 9,700.00                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 37.13           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,339.17             | 3,172.98              | 166.19                  | 20.092                    |         |
| 9,800.00                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 38.18           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,271.88             | 3,104.91              | 166.96                  | 19.597                    |         |
| 9,900.00                                                                                       | 8,835.00            | 8,785.20            | 8,785.20            | 39.31           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,206.29             | 3,038.45              | 167.84                  | 19.104                    |         |
| 10,000.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 40.51           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,142.51             | 2,973.69              | 168.82                  | 18.615                    |         |
| 10,100.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 41.78           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,080.66             | 2,910.75              | 169.91                  | 18.131                    |         |
| 10,200.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 43.10           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,020.85             | 2,849.74              | 171.11                  | 17.655                    |         |
| 10,300.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 44.49           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,963.21             | 2,790.79              | 172.42                  | 17.186                    |         |
| 10,400.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 45.92           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,907.87             | 2,734.04              | 173.83                  | 16.728                    |         |
| 10,500.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 47.39           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,854.96             | 2,679.61              | 175.35                  | 16.281                    |         |
| 10,600.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 48.91           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,804.62             | 2,627.65              | 176.97                  | 15.848                    |         |
| 10,700.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 50.47           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,756.99             | 2,578.30              | 178.68                  | 15.429                    |         |
| 10,800.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 52.06           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,712.21             | 2,531.73              | 180.48                  | 15.028                    |         |
| 10,900.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 53.68           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,670.42             | 2,488.07              | 182.35                  | 14.644                    |         |
| 11,000.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 55.32           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,631.78             | 2,447.48              | 184.29                  | 14.280                    |         |
| 11,100.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 57.00           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,596.41             | 2,410.12              | 186.29                  | 13.938                    |         |
| 11,200.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 58.70           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,564.46             | 2,376.13              | 188.33                  | 13.617                    |         |
| 11,300.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 60.41           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,536.04             | 2,345.65              | 190.39                  | 13.320                    |         |
| 11,400.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 62.15           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,511.30             | 2,318.83              | 192.47                  | 13.048                    |         |
| 11,500.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 63.91           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,490.32             | 2,295.78              | 194.54                  | 12.801                    |         |
| 11,600.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 65.69           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,473.21             | 2,276.62              | 196.60                  | 12.580                    |         |
| 11,700.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 67.47           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,460.06             | 2,261.44              | 198.62                  | 12.386                    |         |
| 11,800.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 69.28           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,450.91             | 2,250.32              | 200.59                  | 12.218                    |         |
| 11,900.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 71.09           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,445.82             | 2,243.32              | 202.50                  | 12.078                    |         |
| 11,974.55                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 72.46           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,444.69             | 2,240.81              | 203.88                  | 11.991 CC                 |         |
| 12,000.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 72.92           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,444.82             | 2,240.48              | 204.34                  | 11.965 ES                 |         |
| 12,100.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 74.76           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,447.90             | 2,241.83              | 206.08                  | 11.878                    |         |
| 12,200.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 76.61           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,455.06             | 2,247.34              | 207.72                  | 11.819                    |         |
| 12,300.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 78.47           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,466.26             | 2,257.00              | 209.26                  | 11.786                    |         |
| 12,400.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 80.34           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,481.43             | 2,270.75              | 210.68                  | 11.778 SF                 |         |
| 12,500.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 82.22           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,500.52             | 2,288.53              | 211.98                  | 11.796                    |         |
| 12,600.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 84.11           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,523.43             | 2,310.26              | 213.17                  | 11.838                    |         |
| 12,700.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 86.00           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,550.05             | 2,335.82              | 214.23                  | 11.903                    |         |
| 12,800.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 87.90           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,580.28             | 2,365.11              | 215.18                  | 11.991                    |         |
| 12,900.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 89.81           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,613.99             | 2,397.99              | 216.01                  | 12.102                    |         |
| 13,000.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 91.72           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,651.05             | 2,434.32              | 216.72                  | 12.232                    |         |
| 13,100.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 93.64           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,691.31             | 2,473.97              | 217.33                  | 12.383                    |         |
| 13,200.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 95.56           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,734.63             | 2,516.79              | 217.85                  | 12.553                    |         |
| 13,300.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 97.49           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,780.88             | 2,562.62              | 218.26                  | 12.741                    |         |
| 13,400.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 99.42           | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,829.91             | 2,611.32              | 218.60                  | 12.946                    |         |
| 13,500.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 101.36          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,881.58             | 2,662.73              | 218.85                  | 13.167                    |         |
| 13,600.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 103.30          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,935.74             | 2,716.71              | 219.03                  | 13.403                    |         |
| 13,700.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 105.25          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 2,992.27             | 2,773.12              | 219.15                  | 13.654                    |         |
| 13,800.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 107.20          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,051.03             | 2,831.82              | 219.20                  | 13.919                    |         |
| 13,900.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 109.15          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,111.89             | 2,892.68              | 219.21                  | 14.196                    |         |
| 14,000.00                                                                                      | 8,835.00            | 8,785.20            | 8,785.20            | 111.10          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,174.73             | 2,955.57              | 219.17                  | 14.485                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design    Sec 14-T21S-R27E - Lonetree 14 State Com #001 - Wellbore #1 - Wellbore #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: 0.00 ft |         |
|--------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|----------------------------|---------|
| Survey Program: 10-INC-ONLY                                                                |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: 0.50 ft |         |
| Reference                                                                                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                            | Warning |
| Measured Depth (ft)                                                                        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                            |         |
| 14,100.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 113.06          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,239.45             | 3,020.36              | 219.09                  | 14.786            |                            |         |
| 14,200.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 115.03          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,305.92             | 3,086.95              | 218.97                  | 15.098            |                            |         |
| 14,300.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 116.99          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,374.05             | 3,155.23              | 218.82                  | 15.419            |                            |         |
| 14,400.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 118.96          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,443.73             | 3,225.09              | 218.64                  | 15.750            |                            |         |
| 14,500.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 120.93          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,514.88             | 3,296.43              | 218.45                  | 16.090            |                            |         |
| 14,600.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 122.90          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,587.41             | 3,369.18              | 218.23                  | 16.439            |                            |         |
| 14,700.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 124.88          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,661.23             | 3,443.23              | 218.00                  | 16.795            |                            |         |
| 14,800.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 126.86          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,736.26             | 3,518.51              | 217.75                  | 17.158            |                            |         |
| 14,900.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 128.84          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,812.45             | 3,594.95              | 217.49                  | 17.529            |                            |         |
| 15,000.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 130.82          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,889.71             | 3,672.48              | 217.23                  | 17.906            |                            |         |
| 15,100.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 132.80          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 3,967.99             | 3,751.03              | 216.96                  | 18.289            |                            |         |
| 15,200.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 134.79          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,047.22             | 3,830.55              | 216.68                  | 18.678            |                            |         |
| 15,300.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 136.78          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,127.36             | 3,910.96              | 216.40                  | 19.073            |                            |         |
| 15,400.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 138.76          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,208.35             | 3,992.23              | 216.11                  | 19.473            |                            |         |
| 15,500.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 140.76          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,290.14             | 4,074.31              | 215.83                  | 19.877            |                            |         |
| 15,600.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 142.75          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,372.69             | 4,157.14              | 215.55                  | 20.286            |                            |         |
| 15,700.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 144.74          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,455.95             | 4,240.68              | 215.26                  | 20.700            |                            |         |
| 15,800.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 146.74          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,539.89             | 4,324.90              | 214.98                  | 21.117            |                            |         |
| 15,900.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 148.73          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,624.46             | 4,409.76              | 214.70                  | 21.539            |                            |         |
| 16,000.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 150.73          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,709.64             | 4,495.21              | 214.43                  | 21.964            |                            |         |
| 16,100.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 152.73          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,795.40             | 4,581.24              | 214.16                  | 22.392            |                            |         |
| 16,200.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 154.73          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,881.69             | 4,667.80              | 213.89                  | 22.824            |                            |         |
| 16,300.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 156.73          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 4,968.50             | 4,754.88              | 213.62                  | 23.258            |                            |         |
| 16,400.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 158.74          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,055.80             | 4,842.44              | 213.36                  | 23.696            |                            |         |
| 16,500.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 160.74          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,143.56             | 4,930.45              | 213.11                  | 24.136            |                            |         |
| 16,600.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 162.74          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,231.76             | 5,018.90              | 212.85                  | 24.579            |                            |         |
| 16,700.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 164.75          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,320.37             | 5,107.76              | 212.61                  | 25.024            |                            |         |
| 16,800.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 166.76          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,409.39             | 5,197.02              | 212.37                  | 25.472            |                            |         |
| 16,900.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 168.77          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,498.78             | 5,286.65              | 212.13                  | 25.922            |                            |         |
| 17,000.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 170.77          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,588.53             | 5,376.63              | 211.90                  | 26.374            |                            |         |
| 17,100.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 172.78          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,678.62             | 5,466.95              | 211.67                  | 26.827            |                            |         |
| 17,200.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 174.79          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,769.04             | 5,557.59              | 211.45                  | 27.283            |                            |         |
| 17,300.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 176.81          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,859.77             | 5,648.53              | 211.24                  | 27.740            |                            |         |
| 17,400.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 178.82          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 5,950.80             | 5,739.77              | 211.03                  | 28.199            |                            |         |
| 17,500.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 180.83          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,042.11             | 5,831.29              | 210.82                  | 28.660            |                            |         |
| 17,600.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 182.84          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,133.69             | 5,923.07              | 210.62                  | 29.122            |                            |         |
| 17,700.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 184.86          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,225.53             | 6,015.11              | 210.42                  | 29.586            |                            |         |
| 17,800.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 186.87          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,317.62             | 6,107.39              | 210.23                  | 30.051            |                            |         |
| 17,900.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 188.89          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,409.95             | 6,199.90              | 210.05                  | 30.517            |                            |         |
| 18,000.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 190.91          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,502.50             | 6,292.64              | 209.87                  | 30.984            |                            |         |
| 18,100.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 192.92          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,595.27             | 6,385.58              | 209.69                  | 31.452            |                            |         |
| 18,200.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 194.94          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,688.25             | 6,478.73              | 209.52                  | 31.922            |                            |         |
| 18,300.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 196.96          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,781.43             | 6,572.08              | 209.35                  | 32.392            |                            |         |
| 18,400.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 198.98          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,874.80             | 6,665.61              | 209.19                  | 32.864            |                            |         |
| 18,500.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 201.00          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 6,968.36             | 6,759.32              | 209.03                  | 33.336            |                            |         |
| 18,600.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 203.02          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 7,062.09             | 6,853.21              | 208.88                  | 33.810            |                            |         |
| 18,700.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 205.04          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 7,155.99             | 6,947.26              | 208.73                  | 34.284            |                            |         |
| 18,800.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 207.06          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 7,250.05             | 7,041.47              | 208.58                  | 34.758            |                            |         |
| 18,900.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 209.08          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 7,344.27             | 7,135.83              | 208.44                  | 35.234            |                            |         |
| 19,000.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 211.10          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 7,438.64             | 7,230.34              | 208.31                  | 35.710            |                            |         |
| 19,100.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 213.12          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 7,533.16             | 7,324.99              | 208.17                  | 36.187            |                            |         |
| 19,200.00                                                                                  | 8,835.00            | 8,785.20            | 8,785.20            | 215.15          | 131.42      | 90.00                 | -1,411.08                         | 3,068.40   | 7,627.82             | 7,419.77              | 208.04                  | 36.664            |                            |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Lonetree 14 State Com #001 - Wellbore #1 - Wellbore #1 |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 0.00 ft |
|------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|---------|
| Survey Program: 10-INC-ONLY                                                                    |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 0.50 ft |
| Reference                                                                                      | Offset                 | Semi Major Axis        |                        | Distance          |                |                             |                                         |               |                            |                             |                               |                           |         |
| Measured Depth<br>(ft)                                                                         | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      | Warning |
| 19,308.27                                                                                      | 8,835.00               | 8,785.20               | 8,785.20               | 217.34            | 131.42         | 90.00                       | -1,411.08                               | 3,068.40      | 7,730.45                   | 7,522.54                    | 207.91                        | 37.182                    |         |

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft   |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|-----------|
| Survey Program: 5-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 150.00 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |           |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |           |
| 0.00                       | 0.00                | 0.00                | 0.00                | 0.50            | 150.00      | 31.35                 | 2,234.63                          | 1,361.57   | 2,616.86             |                       |                         |                   |                    |           |
| 100.00                     | 100.00              | 77.20               | 77.20               | 0.52            | 150.00      | 31.35                 | 2,234.63                          | 1,361.57   | 2,616.76             | 2,466.24              | 150.52                  | 17.385            |                    |           |
| 200.00                     | 200.00              | 177.20              | 177.20              | 0.70            | 150.02      | 31.35                 | 2,234.63                          | 1,361.57   | 2,616.76             | 2,466.04              | 150.72                  | 17.361            |                    |           |
| 300.00                     | 300.00              | 277.20              | 277.20              | 0.99            | 150.05      | 31.35                 | 2,234.63                          | 1,361.57   | 2,616.76             | 2,465.72              | 151.04                  | 17.325            |                    |           |
| 400.00                     | 400.00              | 377.20              | 377.20              | 1.31            | 150.10      | 31.35                 | 2,234.63                          | 1,361.57   | 2,616.76             | 2,465.35              | 151.41                  | 17.283            |                    |           |
| 500.00                     | 500.00              | 477.20              | 477.20              | 1.65            | 150.16      | 31.35                 | 2,234.63                          | 1,361.57   | 2,616.76             | 2,464.95              | 151.81                  | 17.237            |                    |           |
| 600.00                     | 600.00              | 577.20              | 577.20              | 1.99            | 150.24      | 31.35                 | 2,234.63                          | 1,361.57   | 2,616.76             | 2,464.53              | 152.23                  | 17.190 CC, ES     |                    |           |
| 700.00                     | 700.00              | 563.00              | 562.89              | 2.34            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,619.26             | 2,466.83              | 152.42                  | 17.184 SF         |                    |           |
| 800.00                     | 800.00              | 563.00              | 562.89              | 2.69            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,625.52             | 2,473.11              | 152.41                  | 17.226            |                    |           |
| 900.00                     | 900.00              | 563.00              | 562.89              | 3.04            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,635.57             | 2,483.38              | 152.19                  | 17.317            |                    |           |
| 1,000.00                   | 1,000.00            | 563.00              | 562.89              | 3.40            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,649.36             | 2,497.60              | 151.76                  | 17.458            |                    |           |
| 1,100.00                   | 1,100.00            | 563.00              | 562.89              | 3.75            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,666.82             | 2,515.70              | 151.12                  | 17.647            |                    |           |
| 1,200.00                   | 1,200.00            | 563.00              | 562.89              | 4.11            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,687.90             | 2,537.60              | 150.30                  | 17.884            |                    |           |
| 1,300.00                   | 1,300.00            | 563.00              | 562.89              | 4.46            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,712.50             | 2,563.21              | 149.29                  | 18.169            |                    |           |
| 1,400.00                   | 1,400.00            | 563.00              | 562.89              | 4.82            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,740.54             | 2,592.41              | 148.12                  | 18.502            |                    |           |
| 1,500.00                   | 1,500.00            | 563.00              | 562.89              | 5.18            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,771.89             | 2,625.09              | 146.80                  | 18.882            |                    |           |
| 1,600.00                   | 1,600.00            | 563.00              | 562.89              | 5.53            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,806.47             | 2,661.12              | 145.34                  | 19.309            |                    |           |
| 1,700.00                   | 1,700.00            | 563.00              | 562.89              | 5.89            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,844.14             | 2,700.37              | 143.77                  | 19.783            |                    |           |
| 1,800.00                   | 1,800.00            | 563.00              | 562.89              | 6.25            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,884.79             | 2,742.70              | 142.09                  | 20.303            |                    |           |
| 1,900.00                   | 1,900.00            | 563.00              | 562.89              | 6.61            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,928.28             | 2,787.96              | 140.32                  | 20.868            |                    |           |
| 2,000.00                   | 2,000.00            | 563.00              | 562.89              | 6.96            | 150.23      | 31.35                 | 2,234.63                          | 1,361.57   | 2,974.51             | 2,836.03              | 138.48                  | 21.479            |                    |           |
| 2,100.00                   | 2,099.99            | 563.00              | 562.89              | 7.32            | 150.23      | 43.75                 | 2,234.63                          | 1,361.57   | 3,022.79             | 2,886.22              | 136.58                  | 22.132            |                    |           |
| 2,200.00                   | 2,199.96            | 563.00              | 562.89              | 7.68            | 150.23      | 43.36                 | 2,234.63                          | 1,361.57   | 3,072.49             | 2,937.89              | 134.61                  | 22.826            |                    |           |
| 2,300.00                   | 2,299.86            | 563.00              | 562.89              | 8.04            | 150.23      | 42.95                 | 2,234.63                          | 1,361.57   | 3,123.52             | 2,990.94              | 132.58                  | 23.559            |                    |           |
| 2,400.00                   | 2,399.68            | 563.00              | 562.89              | 8.39            | 150.23      | 42.53                 | 2,234.63                          | 1,361.57   | 3,175.81             | 3,045.29              | 130.52                  | 24.333            |                    |           |
| 2,500.00                   | 2,499.37            | 563.00              | 562.89              | 8.75            | 150.23      | 42.11                 | 2,234.63                          | 1,361.57   | 3,229.27             | 3,100.85              | 128.41                  | 25.147            |                    |           |
| 2,600.00                   | 2,598.90            | 563.00              | 562.89              | 9.11            | 150.23      | 41.67                 | 2,234.63                          | 1,361.57   | 3,283.83             | 3,157.55              | 126.28                  | 26.004            |                    |           |
| 2,700.00                   | 2,698.26            | 563.00              | 562.89              | 9.46            | 150.23      | 41.23                 | 2,234.63                          | 1,361.57   | 3,339.43             | 3,215.30              | 124.13                  | 26.902            |                    |           |
| 2,800.00                   | 2,797.40            | 563.00              | 562.89              | 9.82            | 150.23      | 40.78                 | 2,234.63                          | 1,361.57   | 3,396.00             | 3,274.03              | 121.97                  | 27.844            |                    |           |
| 2,900.00                   | 2,896.30            | 563.00              | 562.89              | 10.18           | 150.23      | 40.32                 | 2,234.63                          | 1,361.57   | 3,453.46             | 3,333.67              | 119.79                  | 28.829            |                    |           |
| 3,000.00                   | 2,994.93            | 563.00              | 562.89              | 10.54           | 150.23      | 39.86                 | 2,234.63                          | 1,361.57   | 3,511.77             | 3,394.16              | 117.61                  | 29.859            |                    |           |
| 3,100.00                   | 3,093.26            | 563.00              | 562.89              | 10.90           | 150.23      | 39.40                 | 2,234.63                          | 1,361.57   | 3,570.86             | 3,455.42              | 115.43                  | 30.934            |                    |           |
| 3,195.07                   | 3,186.42            | 563.00              | 562.89              | 11.24           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 3,627.70             | 3,514.33              | 113.37                  | 31.999            |                    |           |
| 3,200.00                   | 3,191.25            | 563.00              | 562.89              | 11.26           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 3,630.67             | 3,517.41              | 113.26                  | 32.056            |                    |           |
| 3,300.00                   | 3,289.08            | 563.00              | 562.89              | 11.62           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 3,691.75             | 3,580.64              | 111.11                  | 33.226            |                    |           |
| 3,400.00                   | 3,386.91            | 563.00              | 562.89              | 11.98           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 3,754.49             | 3,645.50              | 108.99                  | 34.448            |                    |           |
| 3,500.00                   | 3,484.74            | 563.00              | 562.89              | 12.35           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 3,818.83             | 3,711.92              | 106.91                  | 35.721            |                    |           |
| 3,600.00                   | 3,582.58            | 563.00              | 562.89              | 12.72           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 3,884.67             | 3,779.81              | 104.86                  | 37.047            |                    |           |
| 3,700.00                   | 3,680.41            | 563.00              | 562.89              | 13.09           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 3,951.95             | 3,849.10              | 102.85                  | 38.424            |                    |           |
| 3,800.00                   | 3,778.24            | 563.00              | 562.89              | 13.46           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,020.59             | 3,919.70              | 100.88                  | 39.854            |                    |           |
| 3,900.00                   | 3,876.08            | 563.00              | 562.89              | 13.83           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,090.52             | 3,991.56              | 98.96                   | 41.334            |                    |           |
| 4,000.00                   | 3,973.91            | 563.00              | 562.89              | 14.21           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,161.68             | 4,064.59              | 97.09                   | 42.866            |                    |           |
| 4,100.00                   | 4,071.74            | 563.00              | 562.89              | 14.58           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,234.00             | 4,138.75              | 95.25                   | 44.450            |                    |           |
| 4,200.00                   | 4,169.57            | 563.00              | 562.89              | 14.96           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,307.44             | 4,213.97              | 93.47                   | 46.084            |                    |           |
| 4,300.00                   | 4,267.41            | 563.00              | 562.89              | 15.33           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,381.92             | 4,290.19              | 91.73                   | 47.768            |                    |           |
| 4,400.00                   | 4,365.24            | 563.00              | 562.89              | 15.71           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,457.41             | 4,367.36              | 90.04                   | 49.503            |                    |           |
| 4,500.00                   | 4,463.07            | 563.00              | 562.89              | 16.09           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,533.84             | 4,445.44              | 88.40                   | 51.287            |                    |           |
| 4,600.00                   | 4,560.90            | 563.00              | 562.89              | 16.47           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,611.17             | 4,524.37              | 86.81                   | 53.121            |                    |           |
| 4,700.00                   | 4,658.74            | 563.00              | 562.89              | 16.85           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,689.36             | 4,604.11              | 85.26                   | 55.003            |                    |           |
| 4,800.00                   | 4,756.57            | 563.00              | 562.89              | 17.23           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,768.37             | 4,684.62              | 83.75                   | 56.933            |                    |           |
| 4,900.00                   | 4,854.40            | 563.00              | 562.89              | 17.61           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,848.15             | 4,765.86              | 82.30                   | 58.910            |                    |           |
| 5,000.00                   | 4,952.23            | 563.00              | 562.89              | 17.99           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 4,928.67             | 4,847.79              | 80.89                   | 60.934            |                    |           |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft   |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|-----------|
| Survey Program: 5-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 150.00 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |           |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |           |
| 5,100.00                   | 5,050.07            | 563.00              | 562.89              | 18.37           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 5,009.89             | 4,930.38              | 79.52                   | 63.003            |                    |           |
| 5,200.00                   | 5,147.90            | 563.00              | 562.89              | 18.75           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 5,091.78             | 5,013.59              | 78.19                   | 65.117            |                    |           |
| 5,300.00                   | 5,245.73            | 563.00              | 562.89              | 19.14           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 5,174.31             | 5,097.40              | 76.91                   | 67.275            |                    |           |
| 5,400.00                   | 5,343.56            | 563.00              | 562.89              | 19.52           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 5,257.44             | 5,181.77              | 75.67                   | 69.476            |                    |           |
| 5,500.00                   | 5,441.40            | 563.00              | 562.89              | 19.90           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 5,341.15             | 5,266.68              | 74.47                   | 71.718            |                    |           |
| 5,600.00                   | 5,539.23            | 563.00              | 562.89              | 20.29           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 5,425.42             | 5,352.10              | 73.32                   | 74.001            |                    |           |
| 5,700.00                   | 5,637.06            | 563.00              | 562.89              | 20.67           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 5,510.21             | 5,438.01              | 72.20                   | 76.323            |                    |           |
| 5,800.00                   | 5,734.90            | 563.00              | 562.89              | 21.05           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 5,595.50             | 5,524.38              | 71.11                   | 78.683            |                    |           |
| 5,900.00                   | 5,832.73            | 563.00              | 562.89              | 21.44           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 5,681.27             | 5,611.20              | 70.07                   | 81.080            |                    |           |
| 6,000.00                   | 5,930.56            | 563.00              | 562.89              | 21.83           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 5,767.50             | 5,698.44              | 69.06                   | 83.511            |                    |           |
| 6,100.00                   | 6,028.39            | 563.00              | 562.89              | 22.21           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 5,854.17             | 5,786.08              | 68.09                   | 85.977            |                    |           |
| 6,200.00                   | 6,126.23            | 563.00              | 562.89              | 22.60           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 5,941.25             | 5,874.10              | 67.15                   | 88.474            |                    |           |
| 6,300.00                   | 6,224.06            | 563.00              | 562.89              | 22.98           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 6,028.74             | 5,962.49              | 66.25                   | 91.002            |                    |           |
| 6,400.00                   | 6,321.89            | 563.00              | 562.89              | 23.37           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 6,116.61             | 6,051.23              | 65.38                   | 93.558            |                    |           |
| 6,500.00                   | 6,419.72            | 563.00              | 562.89              | 23.76           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 6,204.85             | 6,140.31              | 64.54                   | 96.141            |                    |           |
| 6,600.00                   | 6,517.56            | 563.00              | 562.89              | 24.14           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 6,293.44             | 6,229.71              | 63.73                   | 98.749            |                    |           |
| 6,700.00                   | 6,615.39            | 563.00              | 562.89              | 24.53           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 6,382.37             | 6,319.41              | 62.95                   | 101.381           |                    |           |
| 6,800.00                   | 6,713.22            | 563.00              | 562.89              | 24.92           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 6,471.62             | 6,409.41              | 62.21                   | 104.034           |                    |           |
| 6,900.00                   | 6,811.05            | 563.00              | 562.89              | 25.30           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 6,561.18             | 6,499.69              | 61.49                   | 106.706           |                    |           |
| 7,000.00                   | 6,908.89            | 563.00              | 562.89              | 25.69           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 6,651.04             | 6,590.24              | 60.80                   | 109.396           |                    |           |
| 7,100.00                   | 7,006.72            | 563.00              | 562.89              | 26.08           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 6,741.18             | 6,681.05              | 60.14                   | 112.100           |                    |           |
| 7,200.00                   | 7,104.55            | 563.00              | 562.89              | 26.47           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 6,831.60             | 6,772.10              | 59.50                   | 114.818           |                    |           |
| 7,216.87                   | 7,121.05            | 563.00              | 562.89              | 26.53           | 150.23      | 38.95                 | 2,234.63                          | 1,361.57   | 6,846.88             | 6,787.48              | 59.39                   | 115.278           |                    |           |
| 7,300.00                   | 7,202.57            | 563.00              | 562.89              | 26.85           | 150.23      | 40.71                 | 2,234.63                          | 1,361.57   | 6,922.57             | 6,863.67              | 58.90                   | 117.537           |                    |           |
| 7,400.00                   | 7,301.06            | 563.00              | 562.89              | 27.23           | 150.23      | 43.06                 | 2,234.63                          | 1,361.57   | 7,014.56             | 6,956.23              | 58.34                   | 120.239           |                    |           |
| 7,500.00                   | 7,399.97            | 563.00              | 562.89              | 27.61           | 150.23      | 45.70                 | 2,234.63                          | 1,361.57   | 7,107.49             | 7,049.67              | 57.82                   | 122.921           |                    |           |
| 7,600.00                   | 7,499.23            | 563.00              | 562.89              | 27.98           | 150.23      | 48.67                 | 2,234.63                          | 1,361.57   | 7,201.26             | 7,143.91              | 57.35                   | 125.577           |                    |           |
| 7,700.00                   | 7,598.77            | 563.00              | 562.89              | 28.34           | 150.23      | 52.00                 | 2,234.63                          | 1,361.57   | 7,295.76             | 7,238.86              | 56.91                   | 128.204           |                    |           |
| 7,800.00                   | 7,698.53            | 563.00              | 562.89              | 28.70           | 150.23      | 55.75                 | 2,234.63                          | 1,361.57   | 7,390.92             | 7,334.41              | 56.51                   | 130.796           |                    |           |
| 7,900.00                   | 7,798.44            | 563.00              | 562.89              | 29.05           | 150.23      | 59.95                 | 2,234.63                          | 1,361.57   | 7,486.63             | 7,430.49              | 56.14                   | 133.347           |                    |           |
| 8,000.00                   | 7,898.42            | 563.00              | 562.89              | 29.39           | 150.23      | 64.62                 | 2,234.63                          | 1,361.57   | 7,582.82             | 7,527.00              | 55.82                   | 135.853           |                    |           |
| 8,013.58                   | 7,912.00            | 563.00              | 562.89              | 29.43           | 150.23      | 52.51                 | 2,234.63                          | 1,361.57   | 7,595.91             | 7,540.14              | 55.77                   | 136.189           |                    |           |
| 8,100.00                   | 7,998.42            | 563.00              | 562.89              | 29.73           | 150.23      | 52.51                 | 2,234.63                          | 1,361.57   | 7,679.30             | 7,623.79              | 55.52                   | 138.325           |                    |           |
| 8,200.00                   | 8,098.42            | 563.00              | 562.89              | 30.07           | 150.23      | 52.51                 | 2,234.63                          | 1,361.57   | 7,775.87             | 7,720.64              | 55.23                   | 140.785           |                    |           |
| 8,300.00                   | 8,198.42            | 563.00              | 562.89              | 30.41           | 150.23      | 52.51                 | 2,234.63                          | 1,361.57   | 7,872.53             | 7,817.57              | 54.96                   | 143.232           |                    |           |
| 8,363.62                   | 8,262.04            | 563.00              | 562.89              | 30.62           | 150.23      | 52.51                 | 2,234.63                          | 1,361.57   | 7,934.07             | 7,879.27              | 54.80                   | 144.782           |                    |           |
| 8,400.00                   | 8,298.40            | 563.00              | 562.89              | 30.75           | 150.23      | -30.16                | 2,234.63                          | 1,361.57   | 7,969.02             | 7,914.33              | 54.69                   | 145.710           |                    |           |
| 8,450.00                   | 8,348.10            | 563.00              | 562.89              | 30.91           | 150.23      | -23.85                | 2,234.63                          | 1,361.57   | 8,016.06             | 7,961.57              | 54.49                   | 147.113           |                    |           |
| 8,500.00                   | 8,397.14            | 563.00              | 562.89              | 31.07           | 150.23      | -19.71                | 2,234.63                          | 1,361.57   | 8,061.66             | 8,007.43              | 54.23                   | 148.651           |                    |           |
| 8,550.00                   | 8,445.15            | 563.00              | 562.89              | 31.23           | 150.23      | -16.85                | 2,234.63                          | 1,361.57   | 8,105.50             | 8,051.57              | 53.92                   | 150.314           |                    |           |
| 8,600.00                   | 8,491.77            | 563.00              | 562.89              | 31.38           | 150.23      | -14.78                | 2,234.63                          | 1,361.57   | 8,147.26             | 8,093.69              | 53.57                   | 152.092           |                    |           |
| 8,650.00                   | 8,536.65            | 563.00              | 562.89              | 31.52           | 150.23      | -13.23                | 2,234.63                          | 1,361.57   | 8,186.67             | 8,133.50              | 53.17                   | 153.975           |                    |           |
| 8,700.00                   | 8,579.43            | 563.00              | 562.89              | 31.66           | 150.23      | -12.04                | 2,234.63                          | 1,361.57   | 8,223.46             | 8,170.73              | 52.73                   | 155.949           |                    |           |
| 8,750.00                   | 8,619.80            | 563.00              | 562.89              | 31.80           | 150.23      | -11.11                | 2,234.63                          | 1,361.57   | 8,257.40             | 8,205.14              | 52.26                   | 158.002           |                    |           |
| 8,800.00                   | 8,657.44            | 563.00              | 562.89              | 31.93           | 150.23      | -10.38                | 2,234.63                          | 1,361.57   | 8,288.25             | 8,236.49              | 51.76                   | 160.119           |                    |           |
| 8,850.00                   | 8,692.08            | 563.00              | 562.89              | 32.06           | 150.23      | -9.80                 | 2,234.63                          | 1,361.57   | 8,315.82             | 8,264.58              | 51.24                   | 162.281           |                    |           |
| 8,900.00                   | 8,723.44            | 563.00              | 562.89              | 32.19           | 150.23      | -9.34                 | 2,234.63                          | 1,361.57   | 8,339.94             | 8,289.23              | 50.71                   | 164.470           |                    |           |
| 8,950.00                   | 8,751.29            | 563.00              | 562.89              | 32.34           | 150.23      | -8.98                 | 2,234.63                          | 1,361.57   | 8,360.44             | 8,310.28              | 50.16                   | 166.663           |                    |           |
| 9,000.00                   | 8,775.42            | 563.00              | 562.89              | 32.50           | 150.23      | -8.71                 | 2,234.63                          | 1,361.57   | 8,377.21             | 8,327.59              | 49.62                   | 168.838           |                    |           |
| 9,050.00                   | 8,795.64            | 563.00              | 562.89              | 32.67           | 150.23      | -8.51                 | 2,234.63                          | 1,361.57   | 8,390.13             | 8,341.05              | 49.07                   | 170.969           |                    |           |
| 9,100.00                   | 8,811.80            | 563.00              | 562.89              | 32.87           | 150.23      | -8.37                 | 2,234.63                          | 1,361.57   | 8,399.12             | 8,350.58              | 48.54                   | 173.032           |                    |           |
| 9,150.00                   | 8,823.77            | 563.00              | 562.89              | 33.10           | 150.23      | -8.30                 | 2,234.63                          | 1,361.57   | 8,404.14             | 8,356.12              | 48.02                   | 175.000           |                    |           |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft   |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|-----------|
| Survey Program: 5-INC-ONLY |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 150.00 ft |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning            |           |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |           |
| 9,200.00                   | 8,831.47            | 563.00              | 562.89              | 33.34           | 150.23      | -8.29                 | 2,234.63                          | 1,361.57   | 8,405.14             | 8,357.62              | 47.53                   | 176.847           |                    |           |
| 9,250.00                   | 8,834.84            | 563.00              | 562.89              | 33.60           | 150.23      | -8.33                 | 2,234.63                          | 1,361.57   | 8,402.13             | 8,355.07              | 47.06                   | 178.548           |                    |           |
| 9,263.62                   | 8,835.00            | 563.00              | 562.89              | 33.67           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,400.62             | 8,353.68              | 46.94                   | 178.979           |                    |           |
| 9,300.00                   | 8,835.00            | 563.00              | 562.89              | 33.88           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,396.25             | 8,349.63              | 46.62                   | 180.114           |                    |           |
| 9,400.00                   | 8,835.00            | 563.00              | 562.89              | 34.53           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,385.05             | 8,339.25              | 45.81                   | 183.045           |                    |           |
| 9,500.00                   | 8,835.00            | 563.00              | 562.89              | 35.30           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,375.04             | 8,329.92              | 45.11                   | 185.638           |                    |           |
| 9,600.00                   | 8,835.00            | 563.00              | 562.89              | 36.17           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,366.20             | 8,321.66              | 44.54                   | 187.824           |                    |           |
| 9,700.00                   | 8,835.00            | 563.00              | 562.89              | 37.13           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,358.56             | 8,314.45              | 44.10                   | 189.531           |                    |           |
| 9,800.00                   | 8,835.00            | 563.00              | 562.89              | 38.18           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,352.10             | 8,308.30              | 43.80                   | 190.693           |                    |           |
| 9,900.00                   | 8,835.00            | 563.00              | 562.89              | 39.31           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,346.84             | 8,303.19              | 43.64                   | 191.249           |                    |           |
| 10,000.00                  | 8,835.00            | 563.00              | 562.89              | 40.51           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,342.77             | 8,299.12              | 43.64                   | 191.155           |                    |           |
| 10,100.00                  | 8,835.00            | 563.00              | 562.89              | 41.78           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,339.90             | 8,296.09              | 43.81                   | 190.383           |                    |           |
| 10,200.00                  | 8,835.00            | 563.00              | 562.89              | 43.10           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,338.22             | 8,294.09              | 44.13                   | 188.931           |                    |           |
| 10,289.48                  | 8,835.00            | 563.00              | 562.89              | 44.34           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,337.74             | 8,293.17              | 44.57                   | 187.071           |                    |           |
| 10,300.00                  | 8,835.00            | 563.00              | 562.89              | 44.49           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,337.75             | 8,293.12              | 44.63                   | 186.823           |                    |           |
| 10,400.00                  | 8,835.00            | 563.00              | 562.89              | 45.92           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,338.48             | 8,293.18              | 45.29                   | 184.108           |                    |           |
| 10,500.00                  | 8,835.00            | 563.00              | 562.89              | 47.39           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,340.40             | 8,294.28              | 46.12                   | 180.856           |                    |           |
| 10,600.00                  | 8,835.00            | 563.00              | 562.89              | 48.91           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,343.52             | 8,296.43              | 47.10                   | 177.155           |                    |           |
| 10,700.00                  | 8,835.00            | 563.00              | 562.89              | 50.47           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,347.84             | 8,299.62              | 48.23                   | 173.101           |                    |           |
| 10,800.00                  | 8,835.00            | 563.00              | 562.89              | 52.06           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,353.36             | 8,303.87              | 49.49                   | 168.790           |                    |           |
| 10,900.00                  | 8,835.00            | 563.00              | 562.89              | 53.68           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,360.07             | 8,309.19              | 50.88                   | 164.316           |                    |           |
| 11,000.00                  | 8,835.00            | 563.00              | 562.89              | 55.32           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,367.96             | 8,315.58              | 52.38                   | 159.760           |                    |           |
| 11,100.00                  | 8,835.00            | 563.00              | 562.89              | 57.00           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,377.05             | 8,323.07              | 53.98                   | 155.193           |                    |           |
| 11,200.00                  | 8,835.00            | 563.00              | 562.89              | 58.70           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,387.31             | 8,331.65              | 55.67                   | 150.673           |                    |           |
| 11,300.00                  | 8,835.00            | 563.00              | 562.89              | 60.41           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,398.76             | 8,341.33              | 57.43                   | 146.245           |                    |           |
| 11,400.00                  | 8,835.00            | 563.00              | 562.89              | 62.15           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,411.37             | 8,352.12              | 59.26                   | 141.942           |                    |           |
| 11,500.00                  | 8,835.00            | 563.00              | 562.89              | 63.91           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,425.16             | 8,364.02              | 61.15                   | 137.789           |                    |           |
| 11,600.00                  | 8,835.00            | 563.00              | 562.89              | 65.69           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,440.11             | 8,377.03              | 63.08                   | 133.802           |                    |           |
| 11,700.00                  | 8,835.00            | 563.00              | 562.89              | 67.47           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,456.21             | 8,391.16              | 65.05                   | 129.989           |                    |           |
| 11,800.00                  | 8,835.00            | 563.00              | 562.89              | 69.28           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,473.47             | 8,406.41              | 67.06                   | 126.356           |                    |           |
| 11,900.00                  | 8,835.00            | 563.00              | 562.89              | 71.09           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,491.86             | 8,422.77              | 69.09                   | 122.903           |                    |           |
| 12,000.00                  | 8,835.00            | 563.00              | 562.89              | 72.92           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,511.40             | 8,440.25              | 71.15                   | 119.627           |                    |           |
| 12,100.00                  | 8,835.00            | 563.00              | 562.89              | 74.76           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,532.05             | 8,458.83              | 73.22                   | 116.524           |                    |           |
| 12,200.00                  | 8,835.00            | 563.00              | 562.89              | 76.61           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,553.83             | 8,478.53              | 75.31                   | 113.588           |                    |           |
| 12,300.00                  | 8,835.00            | 563.00              | 562.89              | 78.47           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,576.72             | 8,499.32              | 77.40                   | 110.813           |                    |           |
| 12,400.00                  | 8,835.00            | 563.00              | 562.89              | 80.34           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,600.71             | 8,521.22              | 79.49                   | 108.192           |                    |           |
| 12,500.00                  | 8,835.00            | 563.00              | 562.89              | 82.22           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,625.80             | 8,544.20              | 81.59                   | 105.717           |                    |           |
| 12,600.00                  | 8,835.00            | 563.00              | 562.89              | 84.11           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,651.96             | 8,568.27              | 83.69                   | 103.380           |                    |           |
| 12,700.00                  | 8,835.00            | 563.00              | 562.89              | 86.00           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,679.20             | 8,593.42              | 85.78                   | 101.175           |                    |           |
| 12,800.00                  | 8,835.00            | 563.00              | 562.89              | 87.90           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,707.51             | 8,619.64              | 87.87                   | 99.094            |                    |           |
| 12,900.00                  | 8,835.00            | 563.00              | 562.89              | 89.81           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,736.86             | 8,646.91              | 89.95                   | 97.130            |                    |           |
| 13,000.00                  | 8,835.00            | 563.00              | 562.89              | 91.72           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,767.26             | 8,675.24              | 92.02                   | 95.276            |                    |           |
| 13,100.00                  | 8,835.00            | 563.00              | 562.89              | 93.64           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,798.69             | 8,704.62              | 94.08                   | 93.526            |                    |           |
| 13,200.00                  | 8,835.00            | 563.00              | 562.89              | 95.56           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,831.14             | 8,735.02              | 96.12                   | 91.875            |                    |           |
| 13,300.00                  | 8,835.00            | 563.00              | 562.89              | 97.49           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,864.60             | 8,766.45              | 98.15                   | 90.316            |                    |           |
| 13,400.00                  | 8,835.00            | 563.00              | 562.89              | 99.42           | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,899.06             | 8,798.90              | 100.17                  | 88.844            |                    |           |
| 13,500.00                  | 8,835.00            | 563.00              | 562.89              | 101.36          | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,934.51             | 8,832.34              | 102.16                  | 87.454            |                    |           |
| 13,600.00                  | 8,835.00            | 563.00              | 562.89              | 103.30          | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 8,970.93             | 8,866.78              | 104.14                  | 86.141            |                    |           |
| 13,700.00                  | 8,835.00            | 563.00              | 562.89              | 105.25          | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 9,008.31             | 8,902.21              | 106.10                  | 84.902            |                    |           |
| 13,800.00                  | 8,835.00            | 563.00              | 562.89              | 107.20          | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 9,046.64             | 8,938.60              | 108.04                  | 83.732            |                    |           |
| 13,900.00                  | 8,835.00            | 563.00              | 562.89              | 109.15          | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 9,085.91             | 8,975.95              | 109.96                  | 82.626            |                    |           |
| 14,000.00                  | 8,835.00            | 563.00              | 562.89              | 111.10          | 150.23      | -8.35                 | 2,234.63                          | 1,361.57   | 9,126.11             | 9,014.25              | 111.86                  | 81.582            |                    |           |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

| <b>Offset Design</b> Sec 14-T21S-R27E - Magnolia State 2 (P&A) - Wellbore #1 - Wellbore #1 |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Site Error:</b> | 0.00 ft   |
|--------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|-----------|
| Survey Program: 5-INC-ONLY                                                                 |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               | <b>Offset Well Error:</b> | 150.00 ft |
| Reference                                                                                  |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                           | Warning   |
| Measured Depth<br>(ft)                                                                     | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      |           |
| 14,100.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 113.06            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,167.23                   | 9,053.48                    | 113.74                        | 80.596                    |           |
| 14,200.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 115.03            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,209.24                   | 9,093.64                    | 115.60                        | 79.665                    |           |
| 14,300.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 116.99            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,252.15                   | 9,134.72                    | 117.43                        | 78.786                    |           |
| 14,400.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 118.96            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,295.93                   | 9,176.69                    | 119.25                        | 77.956                    |           |
| 14,500.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 120.93            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,340.58                   | 9,219.55                    | 121.03                        | 77.173                    |           |
| 14,600.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 122.90            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,386.08                   | 9,263.29                    | 122.80                        | 76.435                    |           |
| 14,700.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 124.88            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,432.43                   | 9,307.89                    | 124.54                        | 75.738                    |           |
| 14,800.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 126.86            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,479.60                   | 9,353.34                    | 126.26                        | 75.081                    |           |
| 14,900.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 128.84            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,527.59                   | 9,399.63                    | 127.95                        | 74.462                    |           |
| 15,000.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 130.82            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,576.38                   | 9,446.75                    | 129.62                        | 73.878                    |           |
| 15,100.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 132.80            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,625.96                   | 9,494.69                    | 131.27                        | 73.329                    |           |
| 15,200.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 134.79            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,676.32                   | 9,543.43                    | 132.89                        | 72.813                    |           |
| 15,300.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 136.78            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,727.45                   | 9,592.96                    | 134.49                        | 72.328                    |           |
| 15,400.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 138.76            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,779.34                   | 9,643.27                    | 136.07                        | 71.872                    |           |
| 15,500.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 140.76            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,831.96                   | 9,694.35                    | 137.62                        | 71.445                    |           |
| 15,600.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 142.75            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,885.32                   | 9,746.18                    | 139.14                        | 71.044                    |           |
| 15,700.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 144.74            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,939.40                   | 9,798.76                    | 140.65                        | 70.669                    |           |
| 15,800.00                                                                                  | 8,835.00               | 563.00                 | 562.89                 | 146.74            | 150.23         | -8.35                       | 2,234.63                                | 1,361.57      | 9,994.19                   | 9,852.06                    | 142.13                        | 70.319                    |           |

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

Reference Depths are relative to RKB @ 3269.80ft

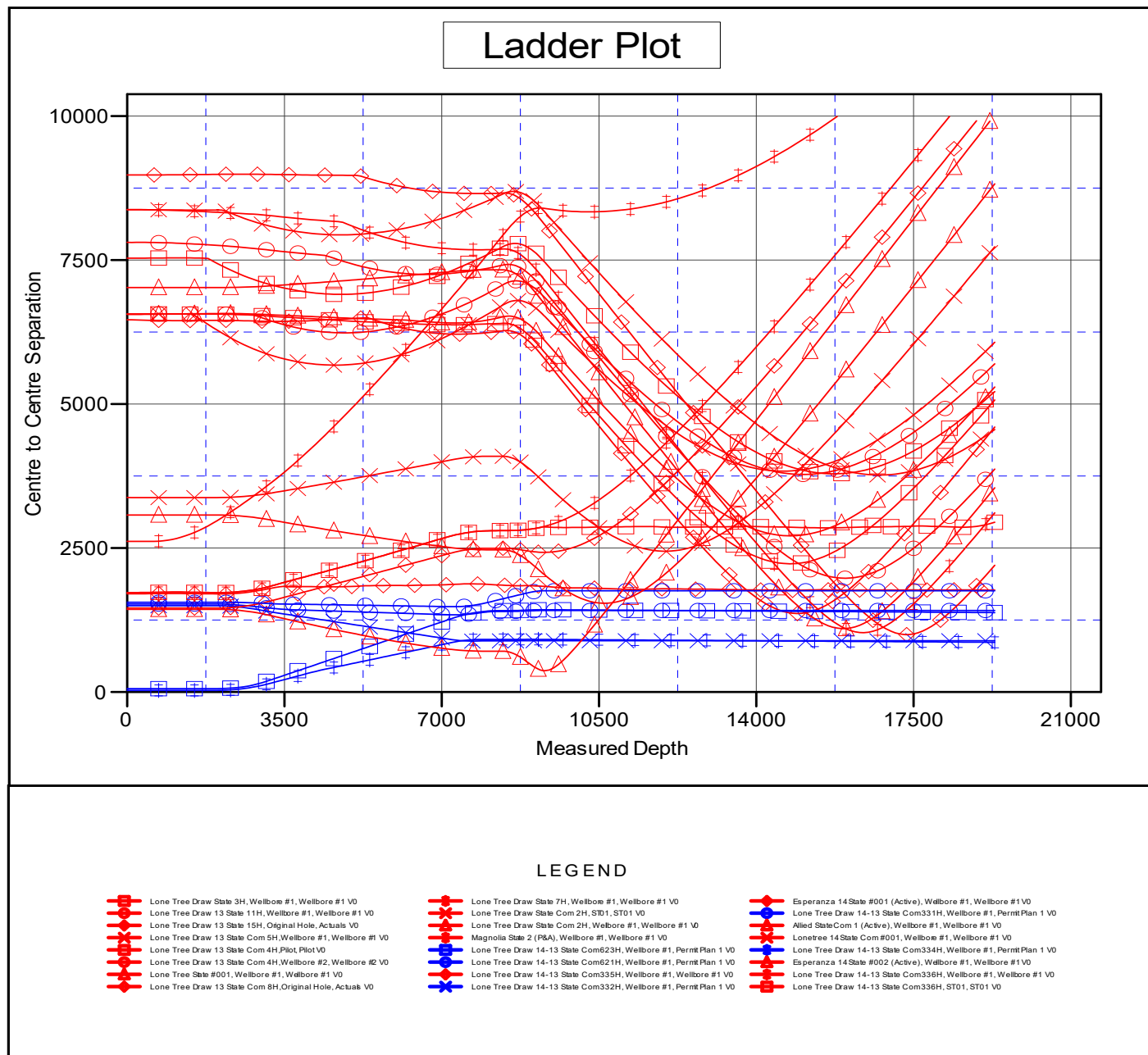
Offset Depths are relative to Offset Datum

Central Meridian is -104.333334

Coordinates are relative to: Lone Tree Draw 14-13 State Com 333H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.09°



CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

|                           |                                     |                                     |                                          |
|---------------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>           | WCDSC Permian NM                    | <b>Local Co-ordinate Reference:</b> | Well Lone Tree Draw 14-13 State Com 333H |
| <b>Project:</b>           | Eddy County (NAD 83 NM Eastern)     | <b>TVD Reference:</b>               | RKB @ 3269.80ft                          |
| <b>Reference Site:</b>    | Sec 14-T21S-R27E                    | <b>MD Reference:</b>                | RKB @ 3269.80ft                          |
| <b>Site Error:</b>        | 0.00 ft                             | <b>North Reference:</b>             | Grid                                     |
| <b>Reference Well:</b>    | Lone Tree Draw 14-13 State Com 333H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Well Error:</b>        | 0.50 ft                             | <b>Output errors are at</b>         | 2.00 sigma                               |
| <b>Reference Wellbore</b> | Wellbore #1                         | <b>Database:</b>                    | EDM r5000.141_Prod US                    |
| <b>Reference Design:</b>  | Permit Plan 1                       | <b>Offset TVD Reference:</b>        | Offset Datum                             |

Reference Depths are relative to RKB @ 3269.80ft

Offset Depths are relative to Offset Datum

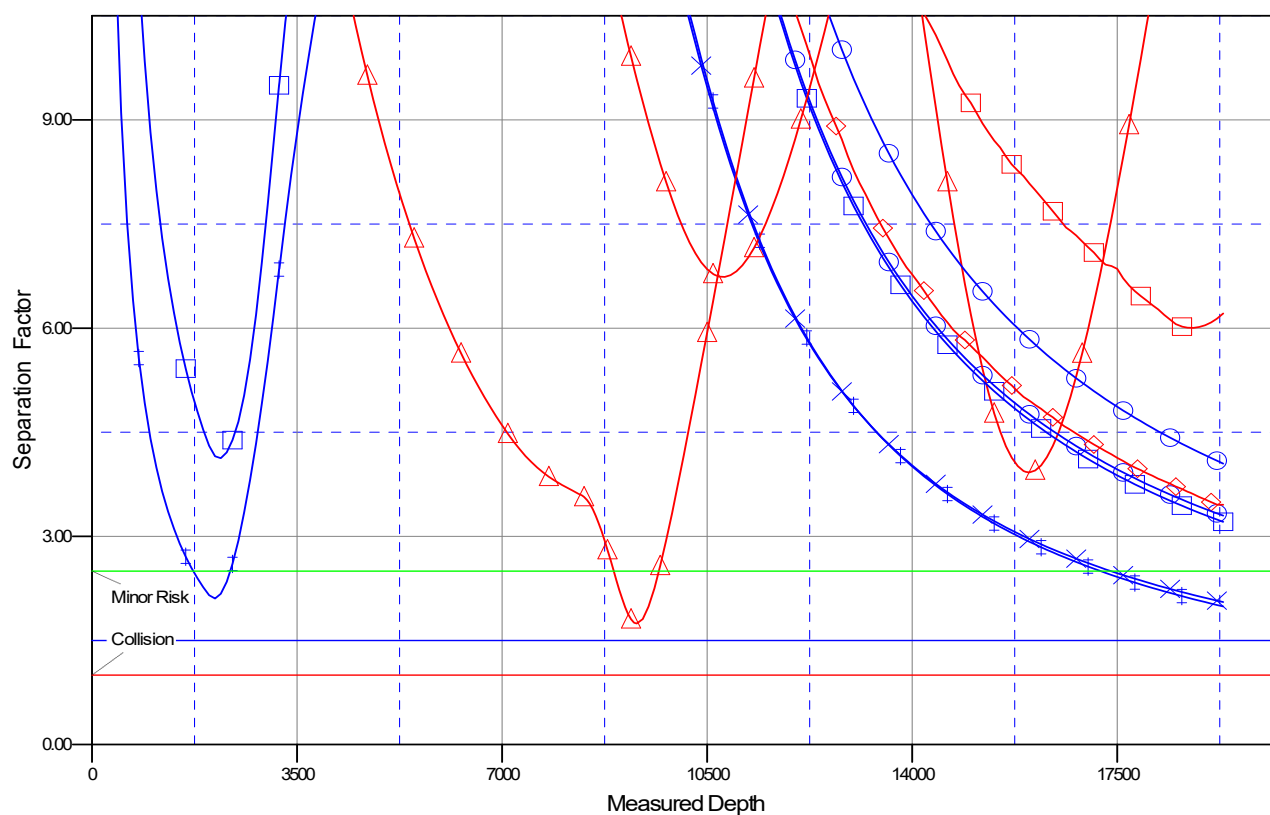
Central Meridian is -104.333334

Coordinates are relative to: Lone Tree Draw 14-13 State Com 333H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.09°

### Separation Factor Plot



#### LEGEND

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Lone Tree Draw State 3H, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 13 State 11H, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 13 State 15H, Original Hole, Actual V0</li> <li>Lone Tree Draw 13 State Com 5H, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 13 State Com 4H, Plot, Plot V0</li> <li>Lone Tree Draw 13 State Com 4H, Wellbore #2, Wellbore #2 V0</li> <li>Lone Tree State #001, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 13 State Com 8H, Original Hole, Actual V0</li> </ul> | <ul style="list-style-type: none"> <li>Lone Tree Draw State 7H, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw State Com 2H, ST01, ST01 V0</li> <li>Lone Tree Draw State Com 2H, Wellbore #1, Wellbore #1 V0</li> <li>Magnolia State 2 (P&amp;A), Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 14-13 State Com 623H, Wellbore #1, Permit Plan 1 V0</li> <li>Lone Tree Draw 14-13 State Com 621H, Wellbore #1, Permit Plan 1 V0</li> <li>Lone Tree Draw 14-13 State Com 335H, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 14-13 State Com 332H, Wellbore #1, Permit Plan 1 V0</li> </ul> | <ul style="list-style-type: none"> <li>Esperanza 14 State #001 (Active), Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 14-13 State Com 331H, Wellbore #1, Permit Plan 1 V0</li> <li>Allied State Com 1 (Active), Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree 14 State Com #001, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 14-13 State Com 334H, Wellbore #1, Permit Plan 1 V0</li> <li>Esperanza 14 State #002 (Active), Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 14-13 State Com 336H, Wellbore #1, Wellbore #1 V0</li> <li>Lone Tree Draw 14-13 State Com 336H, ST01, ST01 V0</li> </ul> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



**Devon Energy Center  
333 West Sheridan Avenue  
Oklahoma City, Oklahoma 73102-5015**

# **Hydrogen Sulfide (H<sub>2</sub>S) Contingency Plan**

**For**

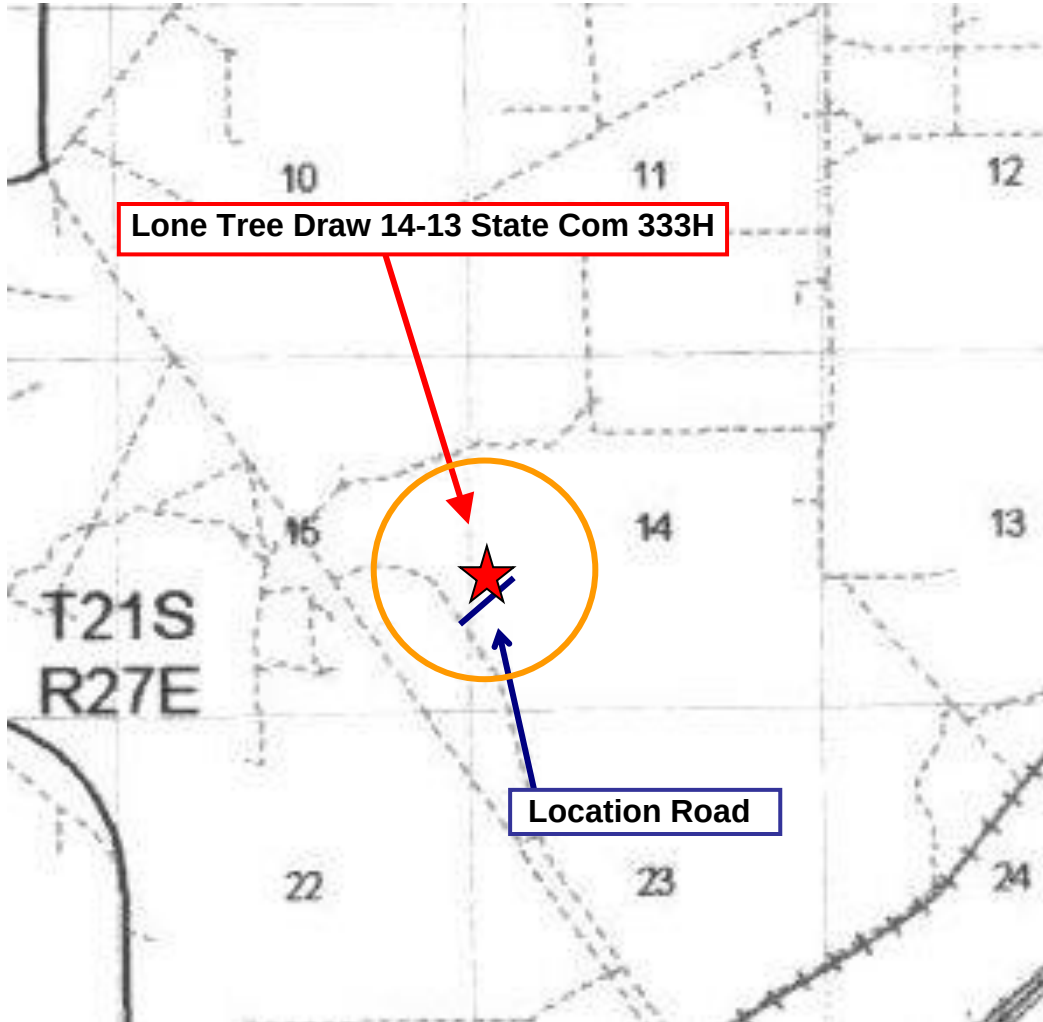
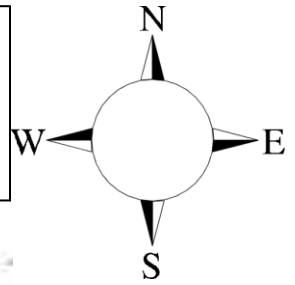
**Lone Tree Draw 14-13 State Com 333H**

**Sec-14 T-21S R-27E  
2100 FSL & 280' FWL  
LAT. = 32.4786618' N (NAD83)  
LONG = 104.1681842' W**

**Eddy County NM**

## Lone Tree Draw 14-13 State Com 333H

This is an open drilling site. H<sub>2</sub>S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H<sub>2</sub>S, including warning signs, wind indicators and H<sub>2</sub>S monitor.



Assumed 100 ppm **ROE = 3000'** (**Radius of Exposure**)  
100 ppm H<sub>2</sub>S concentration shall trigger activation of this plan.

### Escape

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated from the location entrance road. Crews should then block the entrance to the location from the lease road so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE. There are no homes or buildings in or near the ROE.

**Assumed 100 ppm ROE = 3000'**

**100 ppm H<sub>2</sub>S concentration shall trigger activation of this plan.**

### **Emergency Procedures**

In the event of a release of gas containing H<sub>2</sub>S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H<sub>2</sub>S monitors and air packs in order to control the release.
- Use the “buddy system” to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
  - Detection of H<sub>2</sub>S, and
  - Measures for protection against the gas,
  - Equipment used for protection and emergency response.

### **Ignition of Gas Source**

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO<sub>2</sub>). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

### **Characteristics of H<sub>2</sub>S and SO<sub>2</sub>**

| <b>Common Name</b>      | <b>Chemical Formula</b> | <b>Specific Gravity</b> | <b>Threshold Limit</b> | <b>Hazardous Limit</b> | <b>Lethal Concentration</b> |
|-------------------------|-------------------------|-------------------------|------------------------|------------------------|-----------------------------|
| <b>Hydrogen Sulfide</b> | H <sub>2</sub> S        | 1.189<br>Air = 1        | 10 ppm                 | 100 ppm/hr             | 600 ppm                     |
| <b>Sulfur Dioxide</b>   | SO <sub>2</sub>         | 2.21<br>Air = 1         | 2 ppm                  | N/A                    | 1000 ppm                    |

### **Contacting Authorities**

Devon Energy Corp. personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Devon Energy Corp. Company response must be in coordination with the State of New Mexico’s ‘Hazardous Materials Emergency Response Plan’ (HMER)



## **Hydrogen Sulfide Drilling Operation Plan**

### **I. HYDROGEN SULFIDE (H<sub>2</sub>S) TRAINING**

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

1. The hazards and characteristics of hydrogen sulfide (H<sub>2</sub>S)
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H<sub>2</sub>S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

1. The effects of H<sub>2</sub>S metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
3. The contents and requirements of the H<sub>2</sub>S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H<sub>2</sub>S zone (within 3 days or 500 feet) and weekly H<sub>2</sub>S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H<sub>2</sub>S Drilling Operations Plan and the Public Protection Plan.

### **II. HYDROGEN SULFIDE TRAINING**

Note: All H<sub>2</sub>S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H<sub>2</sub>S.

## **1. Well Control Equipment**

- A. Flare line
- B. Choke manifold – Remotely Operated
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- D. Auxiliary equipment may include if applicable: annular preventer and rotating head.
- E. Mud/Gas Separator

## **2. Protective equipment for essential personnel:**

30-minute SCBA units located at briefing areas, as indicated on well site diagram, with escape units available in the top doghouse. As it may be difficult to communicate audibly while wearing these units, hand signals shall be utilized.

## **3. H<sub>2</sub>S detection and monitoring equipment:**

Portable H<sub>2</sub>S monitors positioned on location for best coverage and response. These units have warning lights which activate when H<sub>2</sub>S levels reach 10 ppm and audible sirens which activate at 15 ppm. Sensor locations:

- Bell nipple
- Possum Belly/Shale shaker
- Rig floor
- Choke manifold
- Cellar

### **Visual warning systems:**

- A. Wind direction indicators as shown on well site diagram
- B. Caution/ Danger signs shall be posted on roads providing direct access to locations. Signs will be painted a high visibility yellow with black lettering of sufficient size to be reasonable distance from the immediate location. Bilingual signs will be used when appropriate.

#### **4. Mud program:**

The mud program has been designed to minimize the volume of H<sub>2</sub>S circulated to surface. Proper mud weight, safe drilling practices and the use of H<sub>2</sub>S scavengers will minimize hazards when penetrating H<sub>2</sub>S bearing zones.

#### **5. Metallurgy:**

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H<sub>2</sub>S trim.
- B. All elastomers used for packing and seals shall be H<sub>2</sub>S trim.

#### **6. Communication:**

- A. Company personnel have/use cellular telephones in the field.
- B. Land line (telephone) communications at Office

#### **7. Well testing:**

- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H<sub>2</sub>S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

| <b><u>Devon Energy Corp. Company Call List</u></b> |                                                                         |                               |
|----------------------------------------------------|-------------------------------------------------------------------------|-------------------------------|
| Drilling Supervisor – Basin – Mark Kramer          |                                                                         | 405-823-4796                  |
| EHS Professional – Laura Wright                    |                                                                         | 405-439-8129                  |
| <b><u>Agency Call List</u></b>                     |                                                                         |                               |
| <b><u>Lea County (575)</u></b>                     | <b>Hobbs</b>                                                            |                               |
|                                                    | Lea County Communication Authority                                      | 393-3981                      |
|                                                    | State Police                                                            | 392-5588                      |
|                                                    | City Police                                                             | 397-9265                      |
|                                                    | Sheriff's Office                                                        | 393-2515                      |
|                                                    | <b>Ambulance</b>                                                        | <b>911</b>                    |
|                                                    | Fire Department                                                         | 397-9308                      |
|                                                    | LEPC (Local Emergency Planning Committee)                               | 393-2870                      |
|                                                    | NMOCD                                                                   | 393-6161                      |
|                                                    | US Bureau of Land Management                                            | 393-3612                      |
|                                                    |                                                                         |                               |
|                                                    |                                                                         |                               |
| <b><u>Eddy County (575)</u></b>                    | <b>Carlsbad</b>                                                         |                               |
|                                                    | State Police                                                            | 885-3137                      |
|                                                    | City Police                                                             | 885-2111                      |
|                                                    | Sheriff's Office                                                        | 887-7551                      |
|                                                    | <b>Ambulance</b>                                                        | <b>911</b>                    |
|                                                    | Fire Department                                                         | 885-3125                      |
|                                                    | LEPC (Local Emergency Planning Committee)                               | 887-3798                      |
|                                                    | US Bureau of Land Management                                            | 887-6544                      |
|                                                    | NM Emergency Response Commission (Santa Fe)                             | (505) 476-9600                |
|                                                    | 24 HR                                                                   | (505) 827-9126                |
|                                                    | National Emergency Response Center                                      | (800) 424-8802                |
|                                                    | National Pollution Control Center: Direct                               | (703) 872-6000                |
|                                                    | For Oil Spills                                                          | (800) 280-7118                |
|                                                    | <b>Emergency Services</b>                                               |                               |
|                                                    | Wild Well Control                                                       | (281) 784-4700                |
|                                                    | Cudd Pressure Control                                                   | (915) 699-0139 (915) 563-3356 |
|                                                    | Halliburton                                                             | (575) 746-2757                |
|                                                    | B. J. Services                                                          | (575) 746-3569                |
|                                                    |                                                                         |                               |
|                                                    |                                                                         |                               |
| <b><u>Give GPS position:</u></b>                   | Native Air – Emergency Helicopter – Hobbs (NM and TX)                   | (800)642-7828                 |
|                                                    | Flight For Life - Lubbock, TX                                           | (806) 743-9911                |
|                                                    | Aerocare - Lubbock, TX                                                  | (806) 747-8923                |
|                                                    | Med Flight Air Amb - Albuquerque, NM                                    | (575) 842-4433                |
|                                                    | Lifeguard Air Med Svc. Albuquerque, NM                                  | (800) 222-1222                |
|                                                    | Poison Control (24/7)                                                   | (575) 272-3115                |
|                                                    | Oil & Gas Pipeline 24 Hour Service                                      | (800) 364-4366                |
|                                                    | NOAA – Website - <a href="http://www.nhc.noaa.gov">www.nhc.noaa.gov</a> |                               |
|                                                    |                                                                         |                               |

Prepared in conjunction with  
Dave Small



# Devon Energy - Well Pad Rig Location Layout Safety Equipment Location

